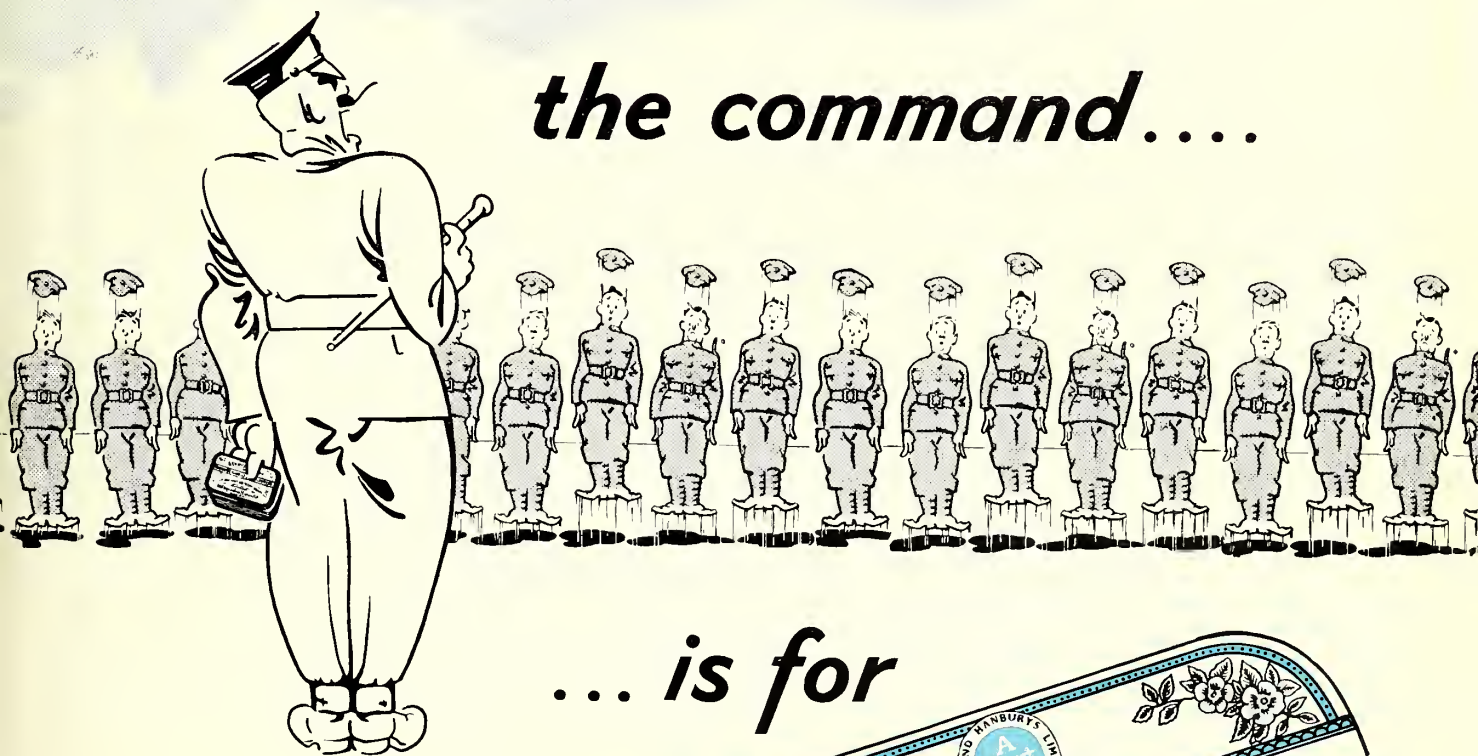


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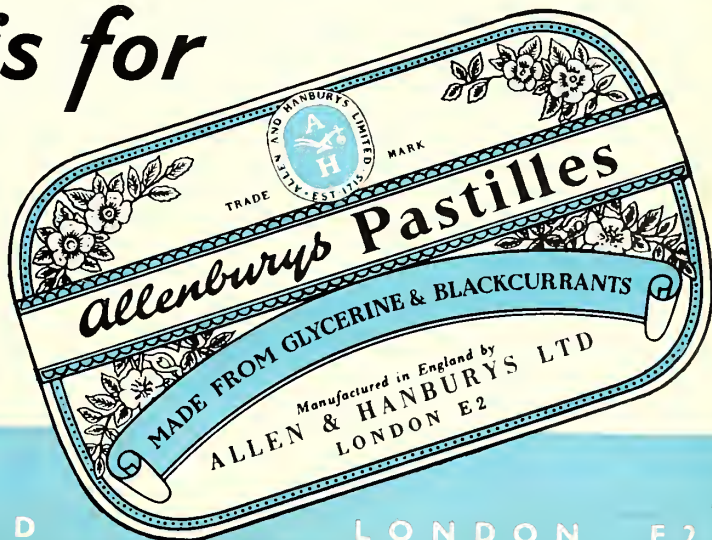
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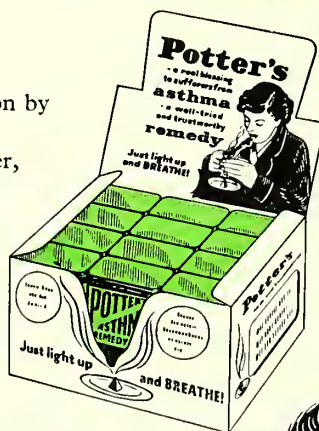
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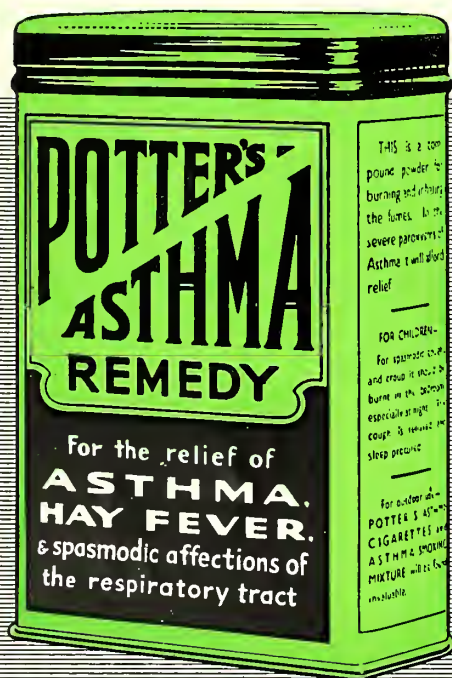
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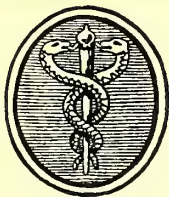
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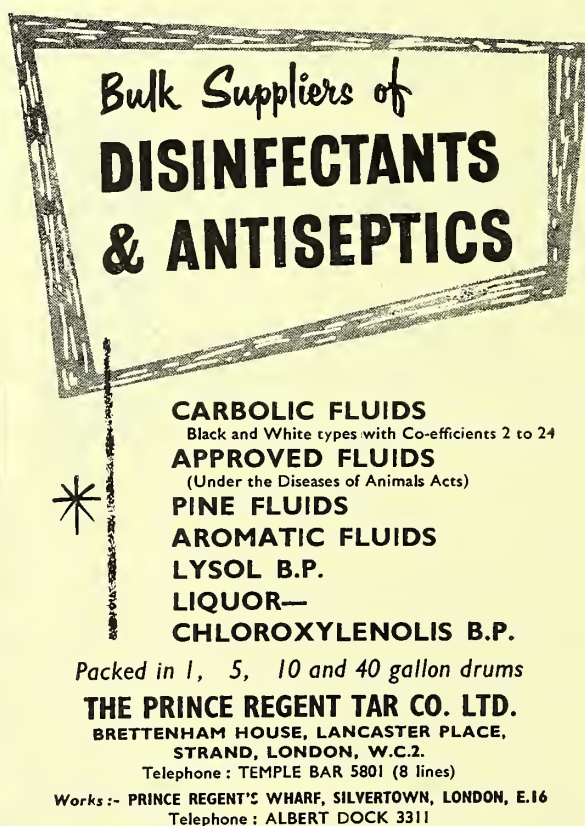
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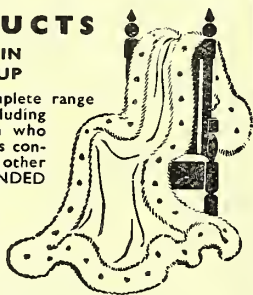
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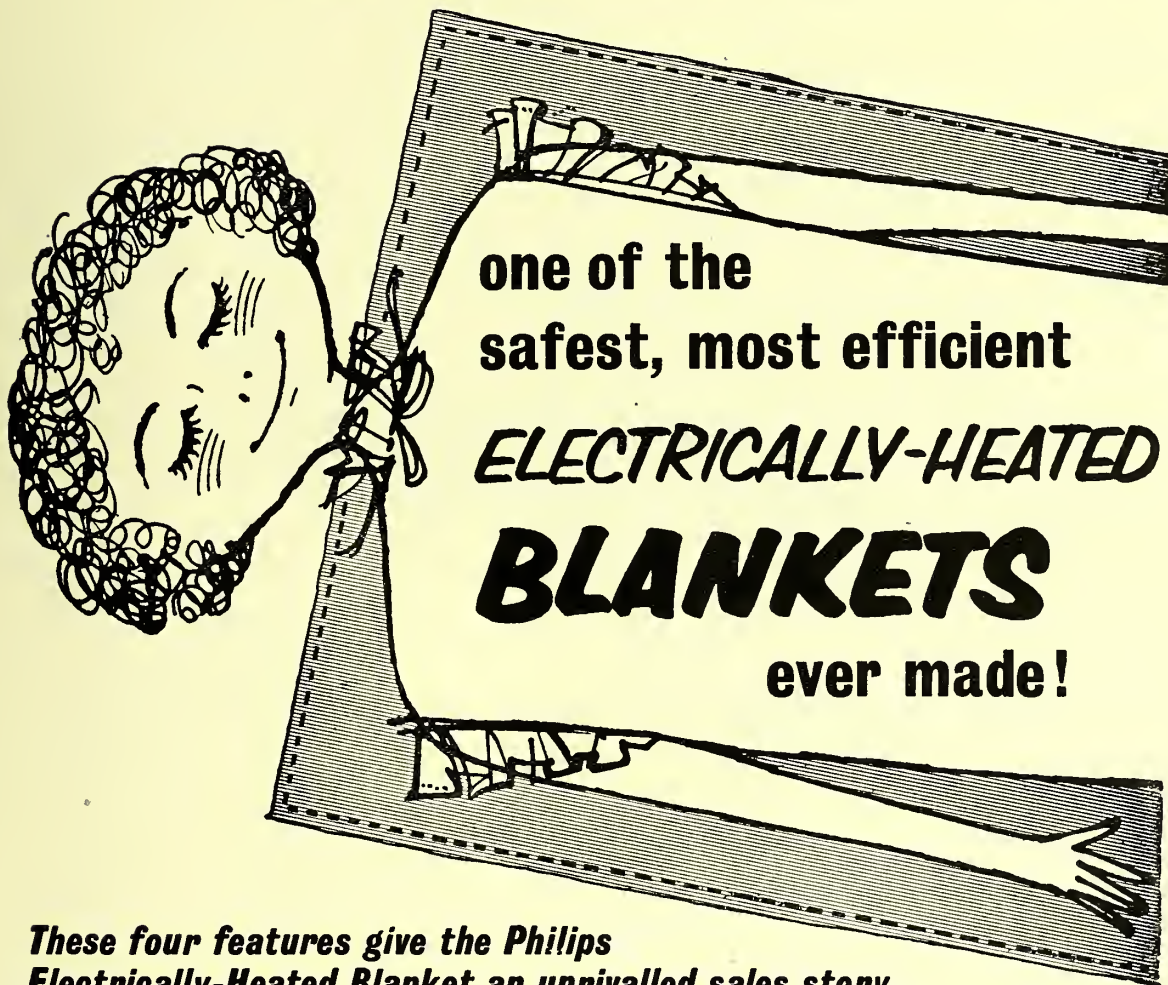
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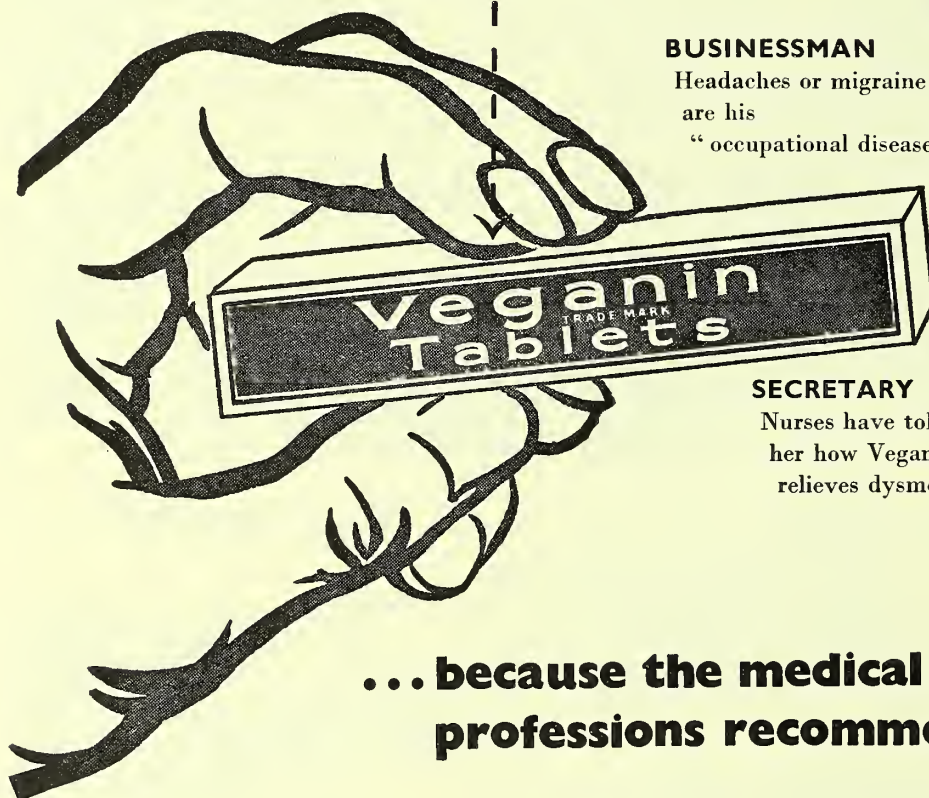
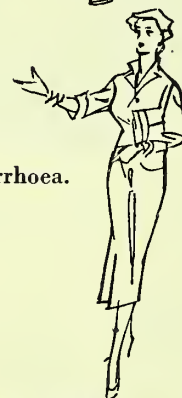
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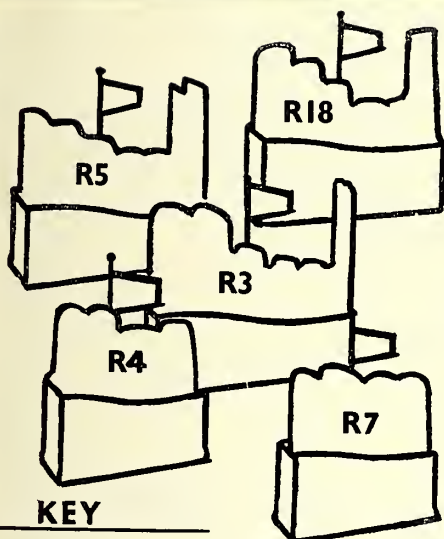
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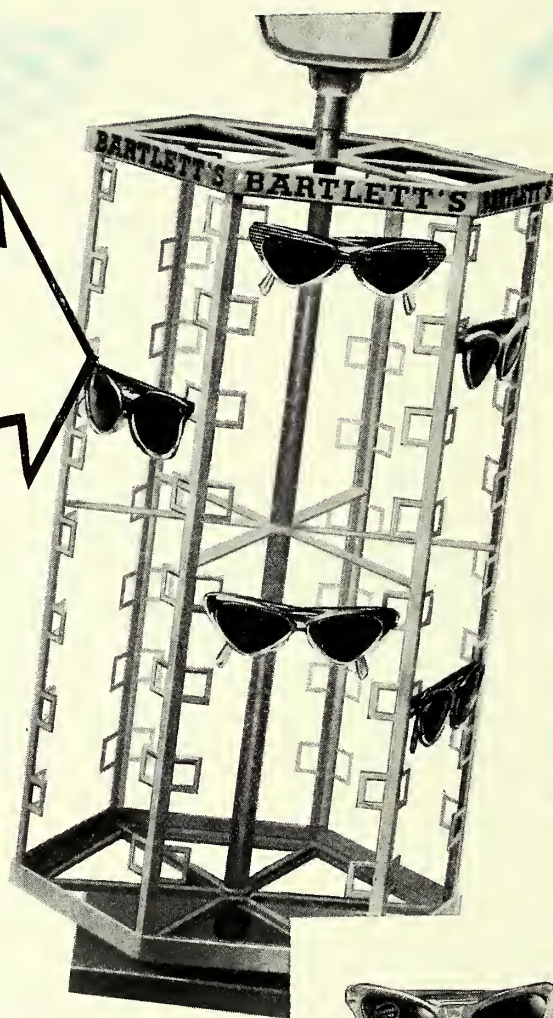
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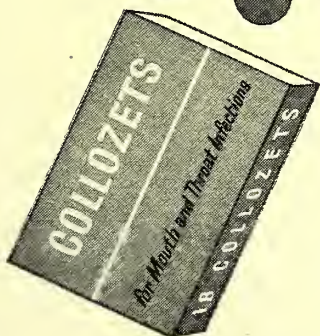
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sulphate in pleasantly flavoured base*

packing: 18 foil-wrapped lozenges in each pack

retail price: 3/- per box, inclusive of P.T.



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Desogen

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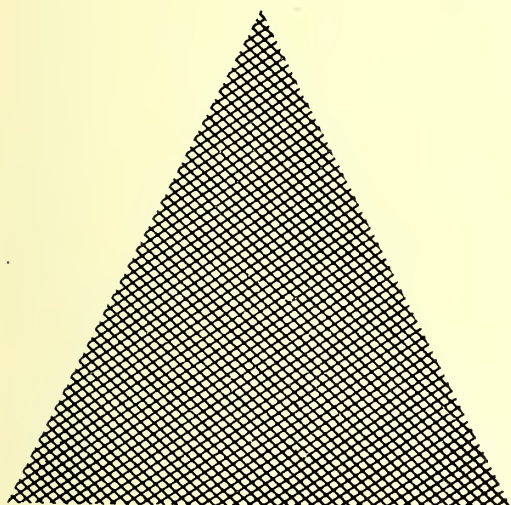
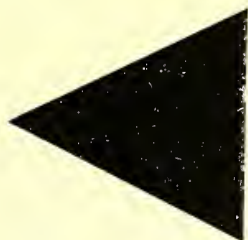
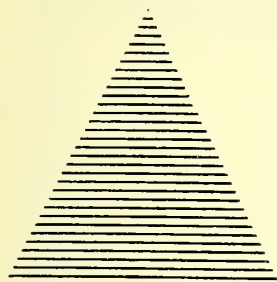
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Packings. Capsules 100 mg. in packings of 12 and 100.
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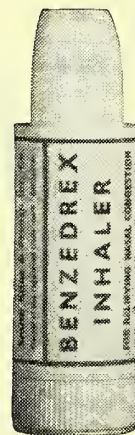
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**Here is your extra
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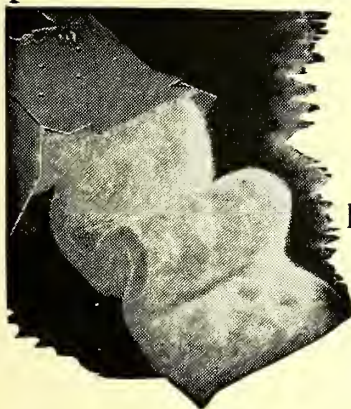
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THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

The weekly newspaper for pharmacy and
all sections of the drug, pharmaceutical and
fine chemical, cosmetic, and allied industries

*Official organ of the Pharmaceutical Society of Ireland
and the Pharmaceutical Society of Northern Ireland*

Volume 167

January 5, 1957

No. 4011

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The CHEMIST AND DRUGGIST

Volume 167

JANUARY 5, 1957

No. 4011

New Steroids on Prescription RELEASE TO GENERAL PRACTITIONERS

PREDNISONE and prednisolone preparations are being released for supply on prescription under the National Health Service from February 1.

The Ministry of Health, in conjunction with the Department of Health for Scotland and the Ministry of Health and Local Government, Northern Ireland, has made the necessary arrangements with United Kingdom manufacturers.

Effect of New Levy

PRESCRIPTIONS DOWN BY 10 PER CENT.

WHILE the number of forms EC10 has remained about the same since the introduction of the new levy charges there has been a drop of 10 to 20 per cent. in actual numbers of prescriptions, states the National Pharmaceutical Union's *Supplement* for December 1956. Although it was still too early to get a representative picture of the effects of the increased levy on prescription numbers and average values, larger quantities of medicines had been ordered by doctors and the average value of the December 1956 prescriptions would undoubtedly be higher than in the past. New rulings, obtained from the Ministry of Health, are that a shilling levy charge only is required for mist, hexamin, although the number of prescriptions for pricing purposes is two. Half-dozen ampoules of digoxin 0.5 mgm. and normal saline 5 c.c. issued in composite pack require the payment of one shilling and are treated as one prescription for pricing while oculent, atropin. 1 dr. prescribed with an eye ointment rod have a 2s. levy and are treated as two prescriptions for pricing purposes.

European Chemicals

THE INDUSTRY REVIEWED

THE long term development of the European chemical industry will depend on two factors: recruiting of managerial and highly qualified scientific and technical staff and maintenance of investment at an appropriate level, particularly in basic chemicals. That is one of the conclusions of an analysis of the chemical industry in Europe carried out by the Organisation for European Economic Co-operation. In a report recently published, O.E.E.C. notes that chemical production in member countries increased by 11.5 per cent. in 1955 over the 1954 figures while the first six months of 1956 showed an increase of 6 per cent. over the 1955 first half. That compares with an increase in the United States of 13 per cent. in 1955

and an increase of 10 per cent. in the first half of 1956.

The use of production capacity was generally very satisfactory. In some industries, however, only part of available capacity was used, particularly in soap, superphosphates, and dyestuffs. The report analyses the situation in each of those sectors. The labour force employed in the chemicals industry (1,350,000) increased by only 5 per cent.; taken with the increase in production that figure seems to indicate an appreciable increase in productivity in the industry. Investments, at about \$1,100 millions, were 23 per cent. higher than in the previous year. The report shows that prices varied little in 1955. Though there was a slight upswing in some countries, export prices tended rather to decline following very keen competition on world markets. Those trends persisted at the beginning of 1956. International trade in chemical products also increased, but trade between the O.E.E.C. countries (plus 8 per cent.) has not increased as much as trade with non-member countries (imports: plus 15 per cent.; exports: plus 14 per cent.). In trade with the dollar area, for which the balance sheet still shows a deficit on the European side, imports of the O.E.E.C. countries rose by 17 per cent. and exports by 8 per cent. The balance sheet for trade with the other non-member countries on the other hand remains largely positive, exports having increased by 16 per cent. and imports by 12 per cent. The United Kingdom imported from O.E.E.C. countries during 1955 medicinal and pharmaceutical products to the value of \$15,898,000; from the dollar area, \$3,933,000 and other countries, \$1,718,000. Exports of similar goods to the respective areas in that time were valued at \$39,742,000; \$6,297,000 and \$61,699,000.

Pharmacy Lectures

LIVERPOOL COLLEGE'S EVENING COURSE

A COURSE of ten Tuesday-evening lectures on "Recent Developments in Pharmacy" is being held at the department of pharmacy, Liverpool College of Technology, commencing January 15 and concluding April 9. Among the subjects being dealt with are blood products and transfusion fluids; poliomyelitis vaccine; formulation of new medi-

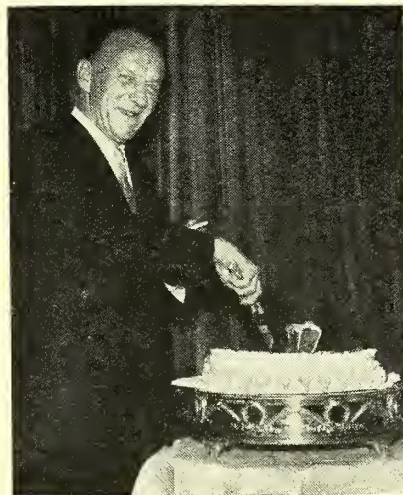
caments; forensic pharmacy (with special reference to recent changes in the law and their effect); pharmacology (with special reference to drugs used to modify mood); radioactive material; pharmacognosy; the antibiotics and the vitamins; and research into new therapeutic substances. Fee for the course is £1 10s. Enrolments may be made on January 15 (the evening of the first of the lectures) but applicants are advised to apply by post to the head of the department of pharmacy at the college, since priority is being given to applications in the order in which they are received.

Royal Warrant Holders

1957 LIST PUBLISHED

INCLUDED in the full list of royal warrant holders published as a supplement to *The London Gazette* on January 1 were the following:—

To the Queen, ALLEN & NEALE (CHEMISTS), LTD., King's Lynn; JOSEPH BENTLEY, LTD., Barrow-on-Humber; BRITISH GLUES & CHEMICALS, LTD., London; COOPER, McDougall & ROBERTSON, LTD., Berkhamsted; DAY & SONS, CREWE, LTD., Crewe; DAY, SON & HEWITT, LTD., London; FISONS, LTD., Felixstowe; WALLACE HEATON, LTD., London; M. L. IRONSIDE, chemist, Ballater; KODAK, LTD., London; A. NELSON & CO., LTD., London, chemists; SAVORY & MOORE, LTD., London, chemists; AIRWICK, LTD., Slough; BOILERINE, LTD., London, manufacturing chemists; BOOTS PURE DRUG CO.,



NEW COMPANY "CHRISTENED": Mr. George F. Smith (president, Johnson & Johnson, New Brunswick, N.J., U.S.A.) cuts the christening cake at a party in London (see p. 2) to launch Johnson & Johnson Export, Ltd.

LTD., Nottingham (soap); H. BRONNLEY & Co., LTD., London; WILLIAM BUDDLES & Co., London, chemists; JOSEPH CROSFIELD & SONS, LTD., Warrington; ILFORD, LTD., London; G. B. KENT & SONS, LTD., London; JOHN KNIGHT, LTD., London; LEVER BROTHERS, PORT SUNLIGHT, LTD., Port Sunlight; MACKENZIE & Co. (CHEMISTS), LTD., Edinburgh; A. & F. PEARS, LTD., Isleworth; RECKITT & COLMAN, LTD., Hull; ROBERTS WINDSOR SOAP Co., LTD., Windsor; ROGER & GALLET, Paris (soap); THE SANITAS Co., LTD., London; SCRUBB & Co., LTD., Wimbledon; THAWPIT, LTD., London; THERMOS (1925), LTD., London; THE VINOLIA Co., LTD., Isleworth; WOOD'S PHARMACY, LTD., Windsor; YARDLEY & Co., LTD., London (soap); THE GENERAL APOTHECARIES Co., LTD., London (veterinary preparations); D. & W. GIBBS, LTD., London; JEVES' SANITARY COMPOUNDS, LTD., Chigwell. *To the late King George VI*, HORLICKS, LTD., Slough; A. WANDER, LTD., London (Ovaltine).

To the late King George V, BEKEN & SON, Cowes, chemists and druggists.

To the late Queen Mary, SAVORY & MOORE, LTD., London; YARDLEY & Co., LTD., London, perfumers.

To Queen Elizabeth the Queen Mother, H. BRONNLEY & Co., LTD., London; D. R. HARRIS & Co., LTD., London, chemists; WALLACE HEATON, LTD., London; ROBERTS WINDSOR SOAP Co., LTD., Windsor; SAVORY & MOORE, LTD., London.

To the Duke of Edinburgh, WALLACE HEATON, LTD., London; PENHALIGON'S, LTD., London (toilet requisites); SAVORY & MOORE, LTD., London.

To the Duke of Windsor when Prince of Wales, CHARLES GILLING, Sunningdale, chemist.

Evening Lectures

COURSES AT LONDON COLLEGE

AMONG the subjects of evening courses available at the Sir John Cass College, Jewry Street, Aldgate, London, E.C.3, in the second term of session 1956-57 are:—

RADIOACTIVITY IN BIOLOGY AND MEDICINE. The course consists of ten lectures (by D. G. Arnott, B.Sc.) that are being given at 6.30 p.m. on Monday evenings beginning January 7. The syllabus includes fundamental radiobiology, radiotherapy, techniques and applications. Fee, £1.

PRACTICAL SPECTROSCOPY. Two courses are being held on Friday evenings (by L. O. Freeman, M.Sc., Ph.D., and D. B. Powell, B.Sc., A.R.I.C.), one in the second and one in the third terms. Emission spectroscopy consists of a ten-week course commencing January 18 and absorption spectroscopy of a ten-week course commencing May 3. Experimental work will be arranged to suit students. Fee, £1.

MICROCHEMICAL ANALYSIS. A course of ten lecture-demonstrations suitable for analysts and advanced students of chemistry (by A. G. Lidstone, M.A., B.Sc., and David W. Wilson, M.Sc., F.R.I.C.). Fee for the course, which commences on January 10, is £1.

DISTILLATION. A course of eight lectures (by G. A. Dummett, M.A., A.M.I.Chem.E.) for industrial chemists

and chemical engineers are being given at 6 p.m. on Friday evenings. Commences January 18. Fee, £1.

PATENTS AND INDUSTRIAL DESIGN PROTECTION. Eight lectures (by Anthony Walton, M.A., B.C.L., Barrister-at-Law). Commencing January 17. Fee, £1.

Detailed prospectuses and enrolment forms are available from the principal.

Animal Health

REPORT FOR 1955

THE question of suitable stoppers for the freeze-dried strain 19 vaccine against undulant fever had presented unexpected difficulties and was still being investigated, states an account of the research work carried out by the Veterinary Laboratory in the Report on the Animal Health Services in Great Britain, 1955, published recently by H.M. Stationery Office, price 5s. For the first time the report is published jointly by the Ministry of Agriculture, Fisheries and Food and the Department of Agriculture for Scotland, following the transfer of certain animal health functions in Scotland to the Secretary of State. During 1955 there were only nine outbreaks of foot-and-mouth disease. The incidence of swine fever was slightly less than in 1954, but outbreaks of anthrax were twice as many and fowl pest rose to nearly the 1953 level. There has been no outbreak of sheep scab since 1952 and the disease may now be regarded as eliminated from Great Britain. A special feature of the report is an account of the progress towards the eradication of bovine tuberculosis.

Traders' Petrol

CONCERN AT DIFFICULTIES

THE executive committee of the Traders' Road Transport Association is concerned at the uncertainty of supplies of supplementary fuel. In a statement issued on December 1, 1956, the committee says that many of its members, including even those on the priority list, have had no reply to their applications for supplementary allowances as yet. A number of others have reported the rejection of their applications for supplementary issues, without which it will be necessary before long drastically to curtail their businesses or in some cases, perhaps, to close down for the time being. They have been advised to notify their M.P.s of the position in which they find themselves, and to appeal against the rejection of their applications. The committee is pressing metropolitan, eastern, and south-eastern regional traffic commissioners to speed up dealing with applications for supplementary motor fuel and to receive a deputation to discuss the matter of "hardship" cases.

Antioxidants

USE IN FOOD TO BE PERMITTED

THE Government said on December 21, 1956, that it is permitting the use of the antioxidants propyl, octyl or dodecyl gallate and butylated hydroxyanisole in oils and fats, essential oils and butter used for manufacture. Those antioxidants will be allowed to be present within the limits indicated in the

Food Standards Committee's report on the subject (see *C. & D.*, September 25, 1954, p. 297). Details of the proposed regulations are shortly being circulated by the Ministry of Agriculture, Fisheries and Food for consideration by the interests concerned. The Government is also considering in a forthcoming review of the Labelling of Food Order, in connection with similar recommendations in respect of colours, the Committee's recommendation that the use of antioxidants in food should be disclosed to the purchaser.

Poliomyelitis

SUPPLIES OF VACCINE TO DOCTORS

AS part of the arrangements under which local authorities are being asked to give general practitioners an opportunity to undertake poliomyelitis vaccination, executive councils have been sending to all doctors on their lists a copy of a leaflet (ECN218) on poliomyelitis vaccine. The leaflet gives information regarding storage, colour, fluidity and use of the vaccine and details in relation to other immunising procedures. It is hoped, the leaflet states, that from the middle of January supplies of poliomyelitis vaccine will become available at regular intervals. Vaccination is being confined to the remaining 1½ million children between 1947 and 1954 who are already registered with local health authorities. Supply of the vaccine is obtainable through the medical officer of health of the local authority.

Export Company Formed

PROGRESS FROM AN "EXPORT DIVISION"

A NEW company, Johnson & Johnson Export, Ltd., was given a "christening party" recently. The new company, a member of the Johnson & Johnson International organisation, will exercise the marketing functions of the former export division of Johnson & Johnson (Gt. Britain), Ltd., Slough, Bucks. It will handle the company's surgical dressings, baby products, etc., in the rapidly expanding markets of the organisation in territories in which there is no associated manufacturing company. The managing director of the company is Mr. E. H. Marsh, and the general sales manager Mr. G. W. Nosotti. The new company has its main offices at 213 Oxford Street, London, W.1 (telephone: Gerrard 3181). Mr. George F. Smith (parent company president) was present.

Television Headache

EYE HEALTH OF CHILDREN

"TELEVISION headache" is occurring in young children, states an ophthalmologist in a Ministry of Education report on "The Health of the School Child" (H.M. Stationery Office, price 6s.). Many children who complained of headaches had normal vision but it was found that they had been watching television from the floor looking at the set from an angle, and sitting much too near the screen. The remedy lay in seeing that children watched television from a distance of not less than six feet, sitting directly in front and on a level with the screen. Viewing should be strictly controlled.

STEROID PREPARATIONS RELEASED

THE following table lists prednisone and prednisolone preparations that will be freely available to general practitioners on February 1 (see page 1).

PREDNISONE TABLETS

TRADE NAME	PRESENTATION
(Not decided)	1 mgm. and 5 mgm.
(Boots)	(30, 100, 500)
DeCortisyl (Roussel)	1 mgm. (100); and 5 mgm. (30, 100, 500)
Delta-Cortelan	5 mgm. (30, 100, 500)
(Glaxo)	
Delta-Cortone	5 mgm. (30, 100, 500)
(Merck)	
Ultra-Corten (Ciba)	1 mgm. and 5 mgm. (25, 100, 500)

PREDNISOLONE TABLETS

Codelcortone	5 mgm. (30, 100, 500)
(Merck)	
Cordex (Upjohn)	0.5 mgm. prednisolone and 300 mgm. aspirin (100)
Delta-Cortef	5 mgm. (30, 100, 500)
(Upjohn)	
Delta-Cortril (Pfizer)	1 mgm. (100) and 5 mgm. (10, 20, 100, 500)
Delta-Ef-Cortelan	5 mgm. (30, 100, 500)
(Glaxo)	
Delta-Stab (Boots)	1 mgm. and 5 mgm. (30, 100, 500)
PreCortisyl (Roussel)	1 mgm. (100) and 5 mgm. (30, 100, 500)

ABBREVIATED NAMES OF MANUFACTURERS:

Boots = Boots Pure Drug Co., Ltd.
Ciba = Ciba Laboratories, Ltd.
Glaxo = Glaxo Laboratories, Ltd.
Merck = Merck Sharp & Dohme, Ltd.
Pfizer = Pfizer, Ltd.
Roussel = Roussel Laboratories, Ltd.
Upjohn = Upjohn of England, Ltd.

Organon Laboratories, Ltd., also supply 5-mgm. tablets of prednisone and of prednisolone in bottles of thirty.

NEWS IN BRIEF

THE Institution of Chemical Engineers has removed to 16 Belgrave Square, London, S.W.1.

NATIONAL Health Service administrative and clerical staff have received a 3 per cent. increase on salaries up to £1,200.

SURCHARGES ranging from 6.7 pence to 1s. 2d. per cwt. on sugar and from threepence halfpenny to ninepence on molasses, came into effect on January 1.

THE two members of the recent Jugo-Slav mission to Britain visited the Ware, Herts, factory of Allen & Hanburys, Ltd., and not as previously stated.

THE Export Credits Guarantee Department announces that its West London office will take over new premises at Romney House, Marsham Street, London, S.W.1 (tel.: Abbey 6271), January 7.

THE Import Duties (Exemptions) (No. 16) Order, 1956, continues for a further period of three months ending March 26, the exemption of titanium dioxide from duty chargeable under the Import Duties Act, 1932.

TOPICAL REFLECTIONS

By Xrayser

Dermatology

The inaugural address to the Scottish Department of the Pharmaceutical Society (p. 702) appears to have been one of great interest to practising pharmacists—by no means a *sine qua non* in regard to such lectures. Professor G. H. Percival ranged over a wide field, from the historical to the modern, indicating the difficulties of his particular subject in the matter of treatment. It surprised me to read that about 14 per cent. of all prescriptions are issued for skin preparations. Progress has been slow in the field of dermatology, and it is noteworthy that, according to the Professor, none of the common skin diseases should have shown any spectacular response to new remedies, though he admits they may cure the disease more elegantly. It has sometimes appeared to pharmacists that one of the simpler and well-established ointments might be tried before embarking on prolonged treatment with expensive new remedies. A look at the cupboard of modern proprietary ointments is a harrowing experience, for many expensive examples have already had their short innings and retired from the field. In common with many other pharmacists, I have seen a condition yield to a simple, old-fashioned ointment after only failure has followed the use of a selection of expensive new preparations. The sufferer from skin disease is in need of sympathy. One recalls having read—though the source evades me for the moment—of a sad little note left behind by one such who had found his condition too much for him. It read simply: "Tired scratching." Incidentally, it is of interest pharmaceutically that Robert Willan, referred to by the lecturer as the founder of modern dermatology, practised at an address in Bloomsbury Square.

Sensitivity

Despite the heading of this paragraph, it does not treat of skin diseases. The title is prompted by a reading of your report of the markets in 1956 (p. 721 *et seq.*), from which it is made evident how greatly pharmacy is at the mercy of untoward circumstances. While other commodities are affected in like manner, the fact that our drug supplies come from all over the world makes the effect more marked than with single articles of commerce such as, say, tea or rubber. Nothing could give a clearer picture of our dependence on the whole world than an examination of your report. A crisis such as arose over Suez naturally has repercussions on all goods coming by that route. A hurricane in the West Indies may seem to be but sensational headlines in the Press, producing for those involved a feeling of sympathy diminished, perhaps, by the distance. But the scarcity of the nutmeg and its price serve to bring home the reality. It may seem of little moment to us in these islands, hardened as we are to inclement weather, to learn that the United States has suffered from "cold, wet conditions," but the purchase of preparations of witch hazel and lobelia makes the weather of the U.S. of importance to pharmacy here. France, Italy and Spain had a spell of exceptionally cold weather, and olive oil reacted at once. As for menthol, one has ceased to wonder at its extremely sensitive behaviour. No prima donna was ever so volatile or so mercurial. Storms, revolutions, tidal waves, earthquakes—no matter where—find Madam Menthol reacting in the most temperamental manner. As a barometer of world affairs—natural or political—menthol leads the field. But small boys everywhere will receive with admirable stoicism the news that castor oil has been subject to violent fluctuations due to increased demand and international unsettlement, so that parents may be forced to the reluctant conclusion that the oil is a luxury.

Occasional Medicine

A prescription received on the Eve of Christmas suggests that the process of educating the people away from medicine—that desirable state advocated by Sir Hugh Linstead in the recent debate—is now a *fait accompli*. It read: "Tab. alumin. hydrox. Mitte 150. Sig.: One every two or three years."

SCOTTISH NEWS

Therapeutic Weapons

WARNING ON DANGERS OF NEW DRUGS

THE doctor of today had at his disposal therapeutic weapons whose capacity for harm as well as good was infinitely greater than in the past, said PROFESSOR J. H. F. BROTHERTON (chair of public health, Edinburgh University) when he addressed the Royal Medical Society in Edinburgh recently. New methods of diagnosis demanded the greatest vigilance to counter the inevitable risks of the situation. As an example of the unanticipated and deadly by-products which might lie in the remedies which science placed in the hands of the doctor, Professor Brotherton quoted an analysis which showed that one-third of 1 per cent. of a group of 14,000 people exposed to x-rays had developed leukaemia. That incidence was ten times greater than would have been expected in the absence of irradiation. In the field of surgery a recent American survey had pointed to death from anaesthesia as a public health problem. There were 2.4 times as many deaths each year attributable to anaesthesia in the United States as there were deaths attributed to poliomyelitis.

Chromatography

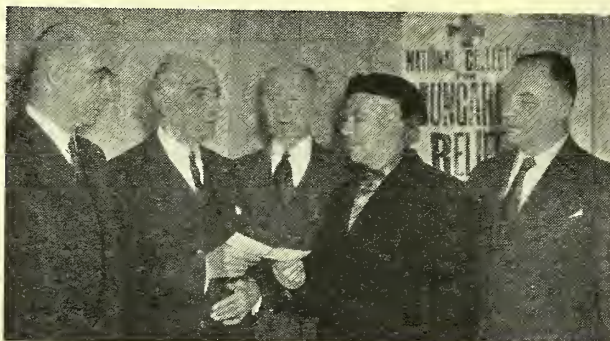
USE IN ANTHRAQUINONE ASSAYS

IN the field of the anthraquinones chromatographic techniques were capable of giving more detailed assessment of quality than the more conventional methods of analysis, said DR. J. P. CUNNINGHAM at a recent meeting of the Scottish section of the Society for Analytical Chemistry. There was scarcely any branch of chemistry in which chromatography had not already been profitably applied and its possibilities were still very far from being exhausted. New techniques are constantly being developed and used for the investigation of new problems. For strict control of the manufacturing processes and quality of the manufactured materials it was important to define the tolerance limits of deleterious impurities in the starting materials. Chromatographic analysis frequently provided detailed information upon which specifications might be based.

Drug Extravagances

EXECUTIVE COUNCIL CRITICISM

DOCTOR and patient had been guilty of the grossest extravagance in Scotland, DR. R. RITCHIE, Perth, told Perth and Kinross Executive Council, recently. That view was backed up by the "terrific amount" of unused drugs and partly-filled bottles found in many houses. Last year, he said, 21,000,000 prescriptions had been written in Scotland and the degree of wastage had been far too high. DR. J. O. McDONAGH (chairman) said that it was too early to pass judgment on the one-shilling per item levy. It might discourage the multiple prescribing which had become common in recent years and encourage doctors to fall back on the older method of putting all the necessary ingredients in the one bottle.



IRISH PHARMACY GIVES FOR HUNGARIAN RELIEF: Mr. F. J. Robinson (president, Irish Drug Association), on behalf of the Association and the Pharmaceutical Society of Ireland, presents a cheque to Mrs. F. E. Hackett (vice-chairman, Irish Red Cross Society) for the Society's Hungarian Refugee Relief Fund. The picture was taken in Dublin recently.

IRISH NEWS

Drug Tests

REPORT FOR 1955-56

OF ninety-six tests of drugs and appliances during the year ended March 31, 1956, eighty-four were satisfactory, one required a warning and eleven were referred to the services committee, states the Northern Ireland Local Pharmaceutical Committee in its recently published report for the year ended September 30, 1956. The Committee comments that the number of cases referred to the services committee was unduly high. The report states that following the attendance of Mr. William Gorman (hon. secretary) at the hearing of each case by the services committee, he had suggested that the following points should be borne in mind: Scales and balances should receive frequent attention; dressings such as cotton wool when ordered on N.H.S. prescriptions should be supplied in original wrappers; when the Board's agent stated that a mixture was a test and would be analysed, the pharmacist should ensure that it was divided into three approximately equal portions, and that all ingredients were properly dispersed; in making stock solutions and mixtures it should be remembered that an ounce (avoirdupois) contained 437.5 grains and not 480; where a contractor was unable to supply the full quantity of tablets prescribed and wished to give the patient a portion and supply the remainder later, he should advise the patient of the shortage before handing over the quantity available; all contractors were advised to join the Chemists' Defence Association, Ltd.

Leprosy Drug

IRISH RESEARCH SUCCESS

DR. Vincent C. Barry, joint author of a paper presented at the British Pharmaceutical Conference in Dublin (see C. & D., October 13, 1956, p. 416) has discovered a new drug which is proving effective in the treatment of leprosy. Dr. Barry, who is director of the Medical Research Laboratory, Dublin, was working on the anti-tuberculosis drug, Hinconstarch, when he discovered a new compound. Known as B283, the compound was of only moderate value to tubercular patients because of difficulty of administration, but was found to be of considerable value in treating leprosy. Tests were carried out in leper colonies in South America, Brazil, India, Nigeria, the Belgian Congo, and

the islands off Australia. Dr. Barry and his assistants are now developing a more effective drug which is shortly expected to be in mass manufacture. Dr. Barry is attending the International Tuberculosis Conference in New Delhi, India, this month to give an account of the research work which led to the discovery.

Pharmacists' Donation

AID FOR HUNGARIANS

A CHEQUE "for a very substantial amount" for the Hungarian relief fund was presented to the Irish Red Cross Society recently by Mr. P. F. McGrath (president, Pharmaceutical Society of Ireland), Mr. F. J. Robinson and Mr. Brendan R. Smith (president and secretary respectively, Irish Drug Association) on behalf of the pharmacists of Ireland. An appeal for support for the fund was made by a joint committee of the Council of the Pharmaceutical Society of Ireland and the committee of the Irish Drug Association.

Examination Results

SUCCESSES IN NORTHERN IRELAND

SUCCESSFUL candidates in the Final Part II Qualifying examination of the Pharmaceutical Society of Northern Ireland held in December 1956 were:—

Agnew, D.; Bartley, P. F.; Bateman, D. G.; Beagon, J. P.; Bogues, Noelle M. C.; Connolly, T.; Davidson, R. J.; Foy, C. J.; Gouk, J. C.; Hamilton, I. H.; Hanna, L.; Hanratty, Mary B.; Henry, Pauline B.; Holliday, R. E.; Irwin, T. R.; Johnston, Stella M.; McBride, P. J.; McCafferty, H. G.; McCormack, J. L.; McCormack, Susan P.; McDaid, P. J.; McKee, G. I.; McKeown, M.; McKernan, C. A.; Mulholland, C. E. P.; Napier, M. V. A.; O'Donnell, D. H.; Rooney, Aileen E.; Ross, J. R.; Shields, K. E. J.; Sinclair, D. J.; Steele, W.; Troy, Anne F.; Watt, C.; Wright, S.

The following were successful in the Final Part I Qualifying examination:—

Aicken, Muriel M.; Anderson, D.; Boyd, R. J.; Busby, T. J. J.; Crockett, R.; Cunningham, N.; Davison, N. M.; Dillon, T. M.; Douglas, J. G.; Graham, W. J.; Hayes, S. G.; Hughes, S.; Johnston, J. S.; Kelly, B. J.; Kelly, J. P.; McCaul, J. A.; McConnell, F. J.; McKee, C. E.; McKee, Margaret M.; McWilliams, R. E.; Magowan, W. S.; Moss, G. B.; Murphy, L. G.; Packham, W. B.; Reid, H. C.; Rosbotham, R.; Taggart, G. R.; Taylor, W. McL.; Treanor, P. J.; Twomey, J. T.; Whitcroft, F. E.

NORTHERN IRELAND PRESCRIPTION CHARGES

Shilling per item from January 1

DRAFT regulations providing for a charge of one shilling per item on National Health Service prescription forms were approved by the Northern Ireland House of Commons on December 18, 1956. The regulations came into effect on January 1.

Disquiet on the Subject

In the debate, MR. J. E. WARNOCK said that when the draft regulations had been circulated many members had had misgivings about the justice or wisdom of the proposals. If matters had not changed he would have asked the House to reject the regulations on the ground that they were, in effect, a discriminatory tax upon the sick. He was aware that among the Unionist Party there was a good deal of disquiet on the subject. He had decided to put down a motion at the first opportunity in the new session of Parliament (in February) which would give the House the chance of a full discussion not only upon the draft regulations but on the whole question of the cost of the Health Services. He did not seek to make any charge of widespread extravagance against the health authorities but where they were spending £14,000,000 of other people's money it was inevitable that there should be some extravagance and waste.

CAPTAIN O. W. J. HENDERSON said that had Mr. Warnock and other members opposed the draft regulations they would have been cutting across the social services agreement which existed between Great Britain and Northern Ireland. He said that the Minister for Health intended in the future to make available to doctors who might be prescribing for certain types of illnesses a composite pack. Would composite packs be available for diabetics? He asked the Minister how far she intended composite packs to be made available, to how many types of illness and what the cost would be, and whether they would be available to people suffering injuries in car accidents.

DR. ROBERT SIMPSON said that the problem resolved itself into two portions: Did Northern Ireland want to retain parity with England in social services; and were they going to accept the proposal and then examine the drawbacks or advantages? One regretted very greatly that it should have been necessary to introduce such legislation. He found it hard to explain why in times of increasing nutrition and increasing levels of health and well-being they should be using more drugs to the extent that in the past year the number of prescriptions and items prescribed had risen by 6 per cent. He asked the Minister to consult with general practitioners, through the British Medical Association, and to see that the matter of composite packs was fully considered. He described the draft proposal as a necessary evil, which the House could not refuse to pass because it would be threatening the social services.

Replying to the debate, DAME DEHRA

PARKER (Minister for Health) said that it was proposed that the regulations should take effect in Northern Ireland from January 1. Both in Northern Ireland and in Britain there had been considerable opposition in some quarters to the new charges. Opposition had come from doctors and chemists as well as the general public. Charges for prescription forms had been introduced in 1952 since when they had brought in about £200,000 annually. For a year or two they had helped to prevent any further rise in the cost of pharmaceutical services, but recently the cost had risen again very steeply. Some part of the increase was attributable to the use of new and expensive drugs. But that was not the only factor. More prescriptions were being issued than ever before. Compared with the previous year the gross cost of pharmaceutical services in Northern Ireland rose in the year ended March 31, 1956, by over £200,000 to a figure exceeding £2,000,000 for the first time. The number of prescription forms rose by 154,000 to nearly 4,500,000 and the number of prescriptions rose by some 400,000 to 7,388,000. That was a most disturbing trend, and it did not show any sign of abating. Pharmaceutical services in Northern Ireland were now more costly than in any other part of the United Kingdom. Therefore, the Government considered that further measures had to be taken to check the rising cost of pharmaceutical services, and it seemed that relating the charge to the number of prescriptions was the right thing to do. It had been suggested that it would be better to increase the charge per form but that would do nothing to discourage patients from demanding and doctors from writing what were known as "shopping lists" of prescriptions on the same form. Furthermore, because about 50 per cent. of the forms still bore one prescription only, an increase in the charge per form would cause many more people to have to pay more for their medicine than under the Government's proposal.

The Minister expected that the new charge would produce an additional saving of about £100,000 in a full year.

Inconvenience to Chemists

Dame Dehra said the procedure was being made as simple as possible but if it was not clearly understood she was sure that she could rely on the good sense of chemists to put their customers right. It was no fault of the chemists that the drug bill had risen so alarmingly, yet they always had a lot of extra trouble when anything like that occurred. "I recognise," she continued, "that they are going to have a certain amount of inconvenience and I should like to take this opportunity to thank them for co-operating with my department and the Board in spite of the fact that I believe they are opposed in principle to the proposals. But," the Minister went on, "I want to make it quite clear that the doctors cannot be absolved of all responsibility. If the

B.M.A. feels strongly on this matter they could help us tremendously by bringing home to their members the direct connection between over-prescribing and the unfortunate necessity for imposing charges. If all doctors took that responsible view, our drug bill would not be nearly so big as it is."

How to Apply the Charge

The Northern Ireland Local Pharmaceutical Committee has issued a circular (No. 20) to contractors to help them in applying the new prescription charges which came into effect in Northern Ireland on January 1.

The following is a summary of the circular:—

The sum of one shilling will be payable in respect of each drug or appliance (other than elastic hosiery) ordered on a prescription form HS21 or dental form. One shilling only is payable, where a drug is supplied in more than one container, or where more than one appliance of the same type is ordered, or two or more component parts of the same appliance are ordered. Where sterile water is ordered separately and is essential for injections, one shilling only would be payable. Where a dropper is ordered for use with medicine, one shilling only would be payable. Where P.E.A.T. is claimed a dropper bottle must always be supplied and payment for a dropper must not be claimed. Under the new regulations the appropriate charge for elastic hosiery *plus* the charge for each other item ordered will be payable. No payment is chargeable for stock prescriptions.

Under the new regulations a refund may be claimed *at any time*. Chemists should inform the patient of that change. Forms PS6 and PS7 will still be in use and supplies of another form, PS9 (which explains how a refund may be claimed) are being sent out to each contractor by the Health Services Board. Receipt forms of higher value than one shilling are being distributed to all contractors in due course but in the meantime the necessary shilling receipt forms should be issued to those requesting receipts.

Charges collected will be retained by chemists and the appropriate amount will be deducted by the Board as hitherto. An allowance of 0.075d. per prescription will be made to cover losses through charges not recovered from the public.

Prescriptions should be coded and sorted as before, but where a form contains two or more prescriptions which rank as one item for the purpose of the charge, they should be coded separately as at present, but the code numbers should be enclosed in a

1037/2
1039/2

rectangle to indicate that one shilling only should be deducted by the Board for these items, e.g.: Bandages W.O.W. mitte. 2 x 2 in. and 2 x 3 in.

Prescription forms received before

January 1, but which for some reason have to be held over until after that date, carry only the one shilling charge (except elastic hosiery) and every effort should be made to include them in the December bundle and sent to the Board for payment not later than January 7. When that is not possible such a form, when completed, should be sent to the Board without delay with a note indicating that it was presented during December and the Board will add it to the December bundle.

The charges are compulsory on the patient to pay and the chemist to collect.

The chemist is entitled to ask for the payment on presentation of the form.

It will not be considered a breach of contract if a chemist contractor fails to dispense a prescription on which the charge is not paid.

Repeated failure on the part of a chemist to collect the charges will be considered an inducement and will be dealt with severely by the Board.

LEGAL REPORTS

Antibiotic Without Prescription

At Marylebone, London, magistrates' court on December 19, 1956, Zygmunt (Chemists) Ltd., Baker Street, W.1, were fined £5, with £5 5s. costs, on a summons by the Pharmaceutical Society for selling at their premises at 4 Westbourne Grove, W.2, on August 10, oxytetracycline, contained in Terramycin ointment (to which Part II of the Therapeutic Substances Act, 1956, applies) not under the authority of a prescription. The Society's solicitor, prosecuting, said that Part II of that Act substituted the Penicillin Act, 1947, which controlled the retail distribution of penicillin. In his submission the position was exactly the same under the Therapeutic Substances Act, 1956, in so far as the retail sale of substances containing penicillin or other similar material was concerned. In the Therapeutic Substances (Control of Sale of Supply) Regulations, there was an item, oxytetracycline, which was the substance with which they were concerned. On August 10 a representative of the Pharmaceutical Society went into the chemist's shop owned by defendant company in Westbourne Grove and asked a girl assistant for a tube of the ointment. It was supplied to her. When the chemist in charge was told what had occurred he said, "Can't we sell it? I looked it up in the price list and it was marked Schedule 4." The solicitor mentioned that chemists had all the latest information put before them week by week and in his submission a chemist ought to be ashamed to say he did not know that information about those up-to-date drugs was available to him.

Stolen Drugs Left at Large

At West London magistrates' court, recently, Robert Albert Bowman, no fixed address, pleaded guilty to stealing from an unattended locked car parked in West Kensington a bag containing Dangerous Drugs and other medical supplies valued together at £40. Bowman said he had "no intention of selling any of the stuff" which was eventually recovered intact from a

The chemist is advised to do all possible to encourage the patient to accept the form as a whole. If the patient (a) decides on presentation of the form that he will not take part of it, or in the case of a small appliance, pays cash for it, the chemist should not alter the form in any way but should mark the particular items "not supplied" and leave uncoded; (b) decides after the whole has been prepared that he will not take a part and refuses to pay the charge or (c) does not call back to collect the medicines, the chemist is entitled to payment for the prescriptions, but forfeits the value of the unpaid charges.

If Patient Refuses Medicine

If the patient will not accept some part of the prescription form, and the chemist is unduly worried owing to the nature of the preparation (especially in the case of serious illness) he may feel it necessary to report the matter in confidence to the patient's doctor.

partly demolished house in Colet Gardens, Hammersmith. The magistrate said: "What you did might have caused the most appalling danger to small children." Bowman shouted from the dock that the doctor should never have left the bag in his car.

Briton Before U.S. Court

In the Federal Court, New York, U.S.A., recently, Dr. Kurt Wallersteiner, a British subject residing in England, was charged with unlawfully exporting chemicals valued at \$100,000 (about £33,000) to Poland in December 1951 and January 1952. Dr. Wallersteiner, who was described as "a brilliant chemical research scientist," was alleged to have made false declarations to the Department of Commerce. It was also alleged that coal-tar dyes marked for shipment to England had been transhipped to Poland, and that Wallersteiner had labelled imports as coming from Germany when they had come, in fact, from red China. Also named in the indictment were the Watford Chemical Corporation, of which Dr. Wallersteiner was president, and the Watford Chemical Co., Ltd., England.

Pharmacy Act Fine

At Sheffield, on December 19, 1956, George Douglas Waring, Abbeydale Road, admitted selling Veganin contrary to the Pharmacy and Poisons Act, 1933. He was fined £3, with £5 5s. costs.

COMPANY NEWS

S. FIGGIS & CO., LTD.—Messrs. I. L. Poore and R. H. Lucas were appointed directors of the company on January 1.

UPJOHN CO. (AUST.), PTY., LTD., 472 Harris Street, Sydney, Australia, has been formed with Mr. Gordon J. Findlayson as managing director.

AUTO WRAPPERS (SALES), LTD., an associate of Auto Wrappers (Norwich), Ltd., has been established with offices at 2 The Broadway, London, N.6 (telephone: Riverside 7660). The managing director is Mr. H. J. C. Day.

IMPERIAL CHEMICAL INDUSTRIES, LTD. — Dr. Ronald Holroyd has been elected a deputy chairman in place of Mr. A. J. Quig who is retiring after fifty years' service with the company and its predecessors.

MARCHON PRODUCTS, LTD. — Mr. O. Secher (joint sales director) has taken on the additional responsibility of chemical products sales, which has in the past been in the hands of Mr. B. B. Dugan. Mr. Dugan is emigrating with his family to South Africa, where he will continue his association with the company by becoming a director of Chemical Services (Proprietary), Ltd., who are Messrs. Marchon's agents in South Africa.

BUSINESS CHANGES

WAECO, LTD. (Fumite Division), has removed to High Post, Salisbury, Wilts (tel: Middle Woodford 282).

THE pharmacy of Burke's, Ballyduff, co. Kerry, has been acquired by Miss Bridget O'Leary, M.P.S.I.

COCKBURN & CO., LTD., have closed their branch pharmacy at 105 Union Street, Glasgow.

H. JEFFERIES & CO. transferred their pharmacy to 8 Market Street, Guildford (from 23 High Street) on January 1.

MAXWELL VITES, LTD., have moved to newly equipped premises at 218 York Road, Leeds, 9 (from 200 York Road).

IMPERIAL CHEMICAL INDUSTRIES, LTD., PHARMACEUTICAL DIVISION, is the new designation of Imperial Chemicals (Pharmaceuticals), Ltd., Wilmslow, Cheshire.

THE Atomic Energy Authority have set up a commercial department at their industrial group headquarters, Risley, nr. Warrington, Lancs, to handle sales of uranium, plutonium, thorium, graphite and other similar materials for the Authority. Within the general policies laid down by the Authority, that department will be responsible for negotiating terms and conditions of sale, including the determination of selling prices. Radioisotopes, stable isotopes, and special requirements for small quantities of research materials, will continue to be handled by the research group of the Authority.

Appointments

BRADLEY & BLISS, LTD., have appointed Mr. B. D. Bird, M.P.S., general manager of their business at London Street, Reading.

W. J. BUSH & CO., LTD., Ash Grove, London, E.8, have appointed Dr. J. D. Johnson to their chemical staff.

DISTILLERS CO., LTD., have appointed Mr. C. E. Evans, O.B.E., general manager of the company; and Mr. D. Blair Watt, works general manager of British Hydrocarbon Chemicals, Ltd., Grangemouth.

INFORMATION WANTED

The Editor would appreciate information about suppliers of the following:

FIVE PALM brand Dingba mixture

PERSONALITIES

MR. G. LEMMON, M.P.S., who recently returned to this country from the Cairo House of Burroughs Wellcome & Co., is spending several months in Central Lancashire as the company's medical representative. Mr. Lemmon went out to Egypt in 1940 with the Army, and stayed on after demobilisation to work as a pharmacist with British companies. In spite of his sixteen years' residence in Egypt, he was given twenty-four hours' notice to leave the country with his wife and two young daughters (though he was, in fact, allowed three days in which to make his arrangements).



MR. E. H. MARSH (managing director of the new export company of Johnson & Johnson (Gt. Britain), Ltd.), joined the organisation in 1938 as an executive trainee at the Gargrave factory. He joined the Territorial Army as a gunner in 1939, saw service with the Eighth Army in Italy and Sicily, and was demobilised in 1945 with the rank of captain. Rejoining the company as personal assistant to the managing director, he was in turn advertising manager 1948-49 and production co-ordinator in charge of liaison between all the company's factories, 1949-51. In 1952 he was promoted general manager of Personal Products, Ltd. Mr. Marsh has made several trips to the parent company in New Brunswick, New Jersey, and has travelled widely in Europe. MR. G. W. NOSOTTI, the new company's sales manager, left the Army with the rank of Major after the 1939-45 war and joined Messrs. Johnson & Johnson in 1947 as pharmaceutical representative. He was made assistant home sales manager in 1949 and export manager in 1952. Mr. Nosotti has visited most of the company's overseas agents.

NEW YEAR HONOURS

THE following awards are included in the New Year Honours list published on January 1:—*Order of Merit*, Sir J. D. Cockcroft (director, Atomic Energy Research Establishment, Harwell); *Knight*, Mr. D. S. Anderson (director, Royal College of Science and Technology, Glasgow); Mr. G. L. Brown, C.B.E., M.B. (Jodrell professor of physiology, University College, London); Major Egbert Cadbury; Mr. F. G. C. Fison; Dr. C. P. Snow, C.B.E. (commissioner and scientific adviser, Civil Service Commission); C.B., Mr. B. K. Blount (deputy secretary, Department of Scientific and Industrial Research); Sir W. Dalrymple-Champneys, D.M., F.R.C.P. (late deputy chief medical officer, Ministry of Health); Mr. R. H. Purcell (chief scientific adviser, Home Office); C.B.E., Mr. N. M. Agnew (chairman, Manchester Regional Hospital Board and Board

of Governors, United Manchester Hospitals); Dr. J. McQueen Johnston (principal medical officer, Department of Health for Scotland); Dr. C. F. White (late medical officer of health, City of London); Mr. J. F. Loutit (director, radiobiological research unit, Harwell); O.B.E., Mr. F. E. Ball (principal Scientific Officer, Ministry of Supply); Mr. W. M. Court-Brown (director, group for research on general effects of radiation, Medical Research Council); Mr. W. L. M. Perry (director, department of biological standards, National Institute for Medical Research); Mr. G. Grey (managing director, Adhesive Tapes, Ltd., Boreham Wood, Herts); Mr. R. Ollason (chairman, Board of Management, Shetland Hospitals, and member, North-eastern Regional Hospital Board); Miss R. Spooner (chairman, Littlemore Hospital Management Committee); O.B.E., *Commonwealth of Australia List*, Mr. A. W. McGibbony (in recognition of honorary service to the Commonwealth Department of Health on behalf of the profession of pharmacy); M.B.E., Mr. D. W. H. Roberts, M.P.S. (pharmacist, H.M. Prison, Wormwood Scrubs); M.B.E., *Colonial Office List*, Mr. A. J. Bearman, F.P.S. (chief pharmacist, Federal Medical Services, Nigeria); G.C.V.O., Brigadier-General Sir Harold Hartley.

BIRTH

ORR.—On December 18, 1956, to Barbara, wife of Andrew Orr, M.P.S., 5 Alloway Place, Ayr, a daughter.

MARRIAGES

TOMLINSON—HEWITSON. — At St. John's Church, Carlisle, recently, Robert James Tomlinson, M.P.S., Levens, Westmorland, to Mary Hannah Hewitson, M.P.S., Carlisle.

SUTHERLAND — WILSON. — At Airdrie Methodist Church, Lanarks, on December 14, 1956, Hugh Sutherland, M.B., Ch.B., Airdrie, to Isabella Moffat Wilson, M.P.S., 39 Firhill Avenue, Airdrie.

DEATHS

BECK.—On December 13, 1956, Mr. John Henry Beck, M.P.S., 118 Ecton Lane, Overstone, Northants, aged forty-five. Mr. Beck was a director of C. W. Wolfe, Ltd., Northampton. He was a member of Northampton Pharmaceutical Committee, and had been captain of the Northampton chemists' cricket club.

RATCLIFFE.—(See C. & D., December 29, 1956, p. 704). Mr. John S. Walmsley writes: The death of C. H. Ratcliffe brings to its close a life of constant devotion to the development of the proprietary medicine industry. From the time when he was a witness before the Select Committee on Patent Medicines in 1912, he took an active part in the work of trade organisation and was primarily responsible for the creation in 1919 of the Association of Manufacturers of Proprietary Medicines, now the Proprietary Association of Great Britain in which he held office from 1919 until his death. He never claimed the limelight but was a sagacious mentor and wise counsellor as can be testified by all who had the privilege of serving with him. As a

host, "C.H." was unsurpassed, as those who remember the window table at the Langham will recall. A connoisseur of good food, good wine and a good cigar, he was the most genial of companions and a visit to his Chesham home was a memorable event. His philosophy was such that he would have enjoyed his friends and colleagues: "And may there be no moaning of the bar, when I put out to sea."

SMITH.—On December 16, 1956, Sir William Wright Smith, F.R.S., Queen's botanist in Scotland, Regius Keeper of the Royal Botanic Garden, Edinburgh, and Regius Professor of Botany at Edinburgh University, aged eighty-one. Professor Sir William Wright Smith had a close association with the Pharmaceutical Society for more than thirty years. He was appointed a member of the board of examiners for Scotland in 1925, and although not engaged in examining in recent years, he still remained a member of the Board, and was always available for consultation if necessary. He was actively concerned in the discussions which led to the introduction of written examinations in 1929, although he always maintained that botany was essentially a practical subject and that it was wrong to put too much emphasis on a written examination in any scientific subject. In 1925 he gave the inaugural address of the seventy-second session of the evening scientific meetings in Edinburgh entitled "A Botanical Tour in the Himalayas. The funeral service was held at Warriston crematorium on December 18, when the Pharmaceutical Society was represented by Mr. Henry Stout (chairman of the Board of Examiners for Scotland) and Dr. David McCall (resident secretary of the Pharmaceutical Society in Scotland).

OVERSEAS VISITS

MR. SIDNEY E. DALE (managing director of J. H. Dale & Son, Ltd., Plaistow, London, E.13) left London Airport on January 3 for an extended tour of the Americas. He will visit American manufacturers and wholesalers, and hopes to purchase a winter residence in the West Indies during his trip.

MR. A. MELBOURNE (export sales manager, Joseph Crosfield & Sons, Ltd.), is shortly making his third extensive overseas tour in connection with the sale of Crosfield products. The journey, which will occupy about ten weeks, involves a round-the-world flight and places to be visited include the Persian Gulf, India, Ceylon, Siam, Burma, Singapore, Indonesia, Hong Kong, Japan and New York.

MISS E. M. SMITH, M.P.S. (a director, Radio Chemicals, Ltd.), is to visit the Far East, Australia and New Zealand. She will be calling at Iraq, Colombo, Singapore and Hong Kong and then on to Sydney, Melbourne, Christchurch, Wellington and Auckland, returning by a similar route but taking in Bangkok and Rangoon. The object of the tour is to meet and discuss current plans for development with the company's various agents. Miss Smith leaves by air on January 19 and returns on March 14.

NEW PRODUCTS AND PACKS

Capsules, Not Tablets.—Sigmamycin is presented by Pfizer, Ltd., 137 Sandgate Road, Folkestone, Kent, in capsules and not as previously stated.

On Prescription.—Merck Sharp & Dohme, Ltd., Hoddesdon, Herts, announce the availability to prescribers under the National Health Service of Hydeltracin lotion for topical application. Hydeltracin contains in each mil prednisolone, 5 mgm., and neomycin sulphate, 5 mgm., and is issued in 15-ml plastic squeeze bottle. Orders are being accepted but supplies are precluded by a Ministry of Health directive from reaching chemists until February 1.

"Ethical" Linctus and Lozenges.—United Chemists Association, Ltd., Ucal Works, Cheltenham Spa, are marketing through their associated company Chelspa, Ltd., Glendouran Laboratories, Keynshambury Road, Cheltenham, two modern "ethical" specialties: Tusal linctus, incorporating amyl *m*-cresol, menthol, thymol, iodo-phenol, phenol, pholcodine and terpin hydrate, which is issued in 4-, 40- and 80-oz. bottles; and Tusal lozenges, incorporating five of those ingredients, in tubes of sixteen and dispensing packs of fifty and 100.

Antibiotic Eye and Skin Ointment.—Cortisporin, a new antibiotic ointment for skin and eye infections, is now available from Burroughs Wellcome & Co., 183 Euston Road, London, N.W.1. Each gm. contains Aerosporin brand polymyxin-B sulphate, 5,000 units; bacitracin, 400 units; neomycin sulphate, 5 mgm.; and hydrocortisone (free alcohol), 5 mgm. The ointment has an antibacterial range greater than that of any single antibiotic and is claimed successful even against *Pseudomonas pyocyanea* and *Proteus vulgaris*. Skin sensitisation and bacterial resistance are unlikely, and there is no likelihood of cross-sensitisation or cross-resistance to other antibiotics. It reduces inflammation and allergic reactions. Cortisporin ointment is issued in tube of 10 gm. with special nozzle.

New Lipstick Shades.—The manufacturers of Tattoo lipsticks herald their

come-back to the United Kingdom market with the launching of two new shades: "Rock 'n Roll pink, a delicate pale shade, and Rock 'n Roll red, a vivid shade." A counter "dispenser" is available with all orders for three doz. or more, assorted by shade and size as desired. Supplies of the dispenser are limited. Inquiries should be sent direct to the distributors of the range: Fassett & Johnson, Ltd., 86 Clerkenwell Road, London, E.C.1.

Picnic Cooker.—A miniature cooker using solid fuel, the Pypro midget, is issued in a compact carton and can be stocked without detriment to the normal merchandise of a pharmacist. The makers are Potters Hygienic Products (London), Ltd., 81 High Street, Dunmow, Essex. The contents are packed in a heat-sealed satchel. The solid fuel tablets are wax-dipped, and the carton in which they are packed is also wax-dipped after sealing. The cooker does not present any special fire problem. It requires no assembling, priming, wick, pressure-pumping or liquid fuel, and makes no noise.

Milk Made Irresistible.—A new series of flavours for milk, cereals,

sandwiches, cakes, pancakes, spreads, jellies, blanc manges, custards and ice cream is being marketed in hygienic polythene easy-squeeze shapes, by Flip,



Ltd., Lion House, Red Lion Street, London, W.C.1. Issued in three varieties (strawberry, pineapple and chocolate), the Flip flavours are sent out 1 doz. of each flavour in polythene bag. Three bags are the complement of each "outer."

TRADE NOTES

Changes of Pack.—Elliman, Sons & Co., Ltd., Chandos Street, Slough, Bucks, are now packing their 3-oz. size athletic rub in a new carton. The 10-oz. size is withdrawn.

Bonus Offer Withdrawn.—The Board of Customs and Excise, after considering a ruling of the purchase tax authority, requested Sangers, Ltd., 258 Euston Road, London, N.W.1, to withdraw a special offer of Glymiel jelly, and the offer has accordingly been closed.

Stabilised Prices Maintained.—Borax Consolidated, Ltd., Borax House, Carlisle Place, London, S.W.1, announce that they intend to hold their prices in the United Kingdom firm till March 31, unless altogether exceptional factors should make it impossible to do so.

Change of Distributor.—Ingles Knibb & Co., 20 Took's Court, Cursitor Street, London, E.C.4, have taken over from Haynor, Ltd., the sole agency for the Unic dry shaver in Britain. Messrs. Knibb have now the full Unic range, including the "auto" shaver for cars, and can give immediate delivery. They also offer a twenty-four hour repair service.

Deferred Terms Scheme Changed.—Ronson Products, Ltd., Leatherhead, Surrey, announce that as the clearing banks are on February 1 charging one shilling for payments made over the counter in connection with hire purchase and credit sale agreements, the company's system under which instalments against their deferred-terms scheme could be paid into any bank is being discontinued. Monthly instalments due under any agreement with the company for the purchase of a Ronson shaver on deferred terms should in future be made direct to Ronson Products, Ltd., Leatherhead, Surrey, by post. Each instalment should

be accompanied by the payment card provided, which will be returned receipted. Purchasers already in possession of payment forms supplied for making payments through a bank should continue to use the forms after February 1, but the completed forms should be sent, with the appropriate remittance, direct to the company, who will return one portion as a receipt.

Change of Formula.—Knox Laboratories, Ltd., 46 Hertford Street, London, W.1, have reformulated their Mendaco tablets for asthma, bronchitis, hay fever, catarrh, etc. The new formula includes aminophylline, stramonium and ephedrine hydrochloride and has been arrived at, say the company, after lengthy laboratory research and thorough clinical testing. New formula Mendaco is being put into distribution on January 14 in a revised chocolate-brown-on-white pack. The coating of the tablets has also been changed—from chocolate-brown to cherry-red colour.

Bonus Offers

CHESEBROUGH-POND'S, LTD., Wadsworth Road, Perivale, Middlesex. Vaseline hand cream. Special price for three doz. For limited period.

E. R. HOLLOWAY, LTD., Bessemer Road, Welwyn Garden City, Herts. Barnet combs. Three combs free with each large "dispenser" cabinet. Until February 28.

FASSETT & JOHNSON, LTD., 86 Clerkenwell Road, London, E.C.1. Tattoo lipsticks. Rock 'n Roll pink and Rock 'n Roll red. 5 per cent. display allowance on orders for three doz. or more assorted with "dispenser."

HALEX DIVISION, BRITISH XYLONITE CO., LTD., Highams Park, London, E.4. Halex combs. Thirteen to doz. on orders for three doz. or more; fourteen to doz. on six doz. or more; fifteen to doz. on twelve doz. or more.



BRANCH AND ASSOCIATION MEETINGS

CORNWALL

Questions and Answers Session

A MEETING in the form of a "questions and answers" session was held in Truro by the Cornwall Branch of the National Pharmaceutical Union recently, Mr. H. Holmes (a member of the N.P.U. Executive) provided the answers. In the chair was Mr. G. L. Hutt, Penryn. Among subjects discussed were rural contractors' problems, contractors' remuneration, and the new prescription levy.

MANCHESTER

B.P.C. Tolerances

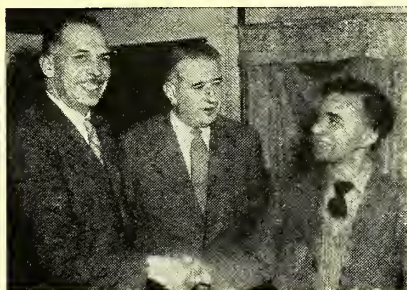
"THE National Formulary and B.P.C. Tolerances in Relation to National Health Service Dispensing" was the subject chosen by Dr. K. R. Capper (editor, Pharmaceutical Society's scientific publications) when he addressed members of Manchester and Salford Branch of the Pharmaceutical Society at Manchester recently. Dr. Capper spoke on the work of the joint formulary committee, on the accuracy of weighing and measuring and on the drug testing scheme. J. R. Walmley presided and a vote of thanks was proposed by Miss K. Applewhite.

EDINBURGH

Photography and the Pharmacist

PHARMACISTS first became associated with photographic dealing because of the reluctance of professional photographers to retail roll films and cameras, Mr. A. A. INGLIS told members of the Edinburgh and South-

eastern Scottish Branch of the Pharmaceutical Society recently. He outlined the early days and explained how in 1943 D. O. Hill, a pioneer of photography in Scotland, coated his own paper. The slow speed of the negative material—on Whatman drawing paper—made the exposures required very lengthy and the paper was later immersed in a wax solution in order to make it transparent for contact printing. Lantern slides of D. O. Hill's work included a portrait of Dr. Knox, the anatomist, and views of old Edinburgh. Modern photographic technique in developing and printing was illustrated by a film made by Mr. Inglis. The talk concluded with a brief description of automatic developing and printing equipment incorporating electronic devices. Mr. J. B. Grosset (chairman) presided.



HANDING ON: Ex-chairman of the Stafford Branch of the Pharmaceutical Society (Mr. Barrett Wells) greets his successor (Mr. D. Wealthall). Between them is the secretary (Councillor John Black).

WEST LONDON

Radioactive Isotopes

ALTHOUGH radioactive substances were at present the responsibility of the physics departments of hospitals the position would change with the addition of such substances to the next British Pharmacopœia, said DR. E. H. BELCHER (senior lecturer in biophysics, Institute of Cancer Research) at a meeting of the Western [London] Pharmacists' Association on December 5, 1956. As an alternative source of radiation to x-rays and as tracers in diagnosis and research radioactive isotopes were particularly useful in that they could be easily measured. Thus by using radioactive isotopes in therapeutics, more accurate dosage could be used for a given part of the body. Internally they were implanted or localised by physical means. They were used diagnostically for brain tumours, bladder and various blood complaints, anaemias, liver, spleen and bone affections. Some of the substances could be applied to give a radiation close to the skin and not to the deeper tissues. Hazards did not arise among workers, said Dr. Belcher, if care were taken that radiation doses were carefully monitored. Radioactive waste was removed in special containers and vans to a given place in Surrey where it was deposited in a pit specially prepared, sealed and guarded. A film dealing with the handling and measuring of radioactive material was shown. That was followed by a demonstration of apparatus. A vote of thanks to the speaker was proposed by MR. D. LEWIS.

PUBLIC HEALTH IN 1955

Ministry of Health report

THE highest number of cases of measles since 1939 (when notification of the disease commenced) is noted in the recently published report for 1955 of the chief medical officer of the Ministry of Health (Sir John Charles). The lowest number of cases notified was 147,000 in 1954—in 1955 there were about 694,000 cases. The report comments that it is fortunate that the fatality rate of measles has been steadily falling. Were that not so, an epidemic such as had been experienced in 1955 would have had a formidable death roll.

Commenting on population trends and expectation of life, the report states that the proportion of children and elderly people in the population has become "significantly modified" since 1901, when children under fifteen amounted to 32 per cent. of the population and persons of sixty-five years or over to 5 per cent. In 1955 the proportions were 23 per cent. and 11 per cent. respectively.

Low Proportion of Vaccinations

For the second year in succession there were no cases of smallpox but disappointment is expressed at the low proportion of children who were vaccinated and that the acceptance rates for the various local health authority

areas should vary between 5.1 and 70.1 per cent. Among 155 cases of diphtheria, there were thirteen deaths, and although the report comments on the continuing downward trend it emphasises the importance of immunising infants early in life. In no case did death occur in a child who had been recently immunised or who had had a booster injection. The fatality ratio of scarlet fever was again low and underlined the waning power of that disease, although there was evidence that certain kinds of hæmolytic streptococci may have a selective action on the kidneys. Whooping cough was less prevalent, the number of cases being well below the average for 1941-49. The number of deaths was the lowest recorded at eighty-eight. Sixty deaths occurred in infants under one year of age and of those forty-three were under six months, and twenty under three months. "We still do not know the mechanism of immunity in whooping cough nor whether the presence in . . . blood of agglutinins to *H. Pertussis* is evidence that immunity exists," says the report, and for that reason studies on the immunising properties of whooping cough vaccine should contain observations on a lengthy follow-up of the inoculated children to ascertain whether or not there were significant differences

in the experience of inoculated children and controls. Influenza, it is noted, was again comparatively mild.

With a further decrease in meningococcal infection in 1955, the lowest figure for the past ten years (except 1949) was reached. The number of notifications totalled 1,125 (compared with 2,012 in 1946), there were 205 deaths (509), making a fatality ratio (deaths per 100 notifications) of 18.2 (25.3).

Poliomyelitis

Nearly seven pages of the report are devoted to a review of the events which led up to the beginning of the large-scale manufacture of poliomyelitis vaccine in Britain. In 1955 there was a recrudescence of the disease and 3,712 cases of the paralytic form were notified, compared with 1,319 in 1954, and 2,619 of the non-paralytic form (641 in 1954). The total number of deaths from poliomyelitis was 270 compared with 134 in 1954. The report notes that the paralytic type principally affects children of both sexes under fourteen years of age, in which group nearly 70 per cent. of all notifications occur.

Typhoid and paratyphoid fevers were held to have been responsible for fifteen deaths throughout the year. Notifications totalled 1,069, of which 193 were of typhoid fever. Those diseases had

now little importance as indigenous infections—much of the infection coming from abroad. It is noted that it appeared that certain strains of the paratyphoid bacillus were changing their character in that, instead of producing a typhoid-like fever in patients, they caused an acute gastro-enteritis closely resembling food poisoning infections.

The report emphasises the prominent place taken by made-up or otherwise pre-cooked meat dishes among vehicles of infection, and also focuses attention on the continuing increase of salmonella infections over the years. In that connection egg products from home and abroad were being closely watched: up to 33 per cent. of samples recently examined by the Public Health Laboratory Service had been found to be contaminated with food-poisoning types of salmonella. Notifications of dysentery continued to increase "which would be alarming if the disease had retained the fatality ratios which characterised it forty years ago," comments the report. The mortality ratio had diminished to

an "impressive" extent largely because of the preponderance of infections by *Shig. sonnei* whose effects were much less severe than those of the Flexner series.

The report notes that 1955 was the first year since 1947 that the number of new patients attending treatment centres for syphilis had not fallen, although the size of the increase was not of great significance. Late and latent syphilitic patients had been rather fewer in number.

Tuberculosis Conquered?

The decline in the number of cases and deaths from tuberculosis which had taken place within the past six years justified a sober hope that a continuation of effort should see the end of the disease as an important public health problem in the not too distant future, comments the report, though it points out that the fall in the mortality rate from tuberculosis in Wales was not so great as in England.

Among cancers, that of the lung was

the one causing most anxiety. There could be little doubt that that condition was increasing and had probably been increasing since 1920. Air pollution and excessive cigarette smoking seemed to be associated with its occurrence, though other factors at present unknown might also be operative.

Attention is drawn to the fact that dental caries might be increasing in five-year-old children throughout the country, as it was doing in Staffordshire. Studies on the value of water fluoridation were continuing in many areas in that connection.

Despite the publicity given the subject, accidental poisoning of children continued to cause considerable anxiety for it was not decreasing. The four most common poisoning agents responsible for deaths in children under ten years of age were, in order of diminishing frequency, ferrous sulphate, antihistamines, aspirin, and strychnine.

The report is published by H.M. Stationery Office, Kingsway, London, W.C.2, price 9s.

A LANOLIN MANUFACTURER'S PROGRESS

New headquarters opened

DECEMBER 17, 1956, may be remembered by many as the day on which petrol rationing was reintroduced into Great Britain, but more pleasant memories are likely to be retained by the members and staff of Croda, Ltd. On that date the company opened new offices at Cowick Hall, a seventeenth century mansion situated between Goole and Snaith in Yorkshire.

The ceremony was performed by VISCOUNT DOWNE, O.B.E., after he had been introduced to the directors and guests by Mr. F. A. S. Wood (managing director of the company). Lord Downe remarked that it was a happy and appropriate task for him, since one of his predecessors had built the hall in 1675, and from then until 1865 successive heads of the family had lived and prospered at Cowick. He hoped those who now worked in the offices would secure happiness and prosperity for the company and themselves. Lord Downe was thanked by SIR EDWARD CROWE (chairman of the company) who said the decision to acquire the lease of Cowick Hall was taken when it became apparent that accommodation at the Snaith headquarters was insufficient to meet the company's growing requirements.

Messrs. Croda began manufacturing lanolin in 1925. They then had three employees and an annual turnover under £10,000. Today the company is active in many other fields, all stemming from its first interest in lanolin. The group has over 250 employees and a turnover of more than £1½ millions a year.

Rust-preventive Compounds

In 1929 the National Physical Laboratory produced a report that stressed the importance of lanolin as an anti-corrosive. As a result, Messrs. Croda began to make rust-preventive and anti-corrosive compounds. Progress was slow at first, but the 1939-45 war showed the real importance of rust prevention, and gave scope to further expansion of rust inhibitors, etc. Because many anti-corrosive coatings closely resemble paints, Messrs. Croda later started to make paints. The main emphasis was on paints for industry, but a range of retail decorative finishes is marketed in the North of England through an associate company. Great importance has always been placed on producing raw materials and ingredients suitable for use by a large cross-section of industry: superfine lanolin

for cosmetics, technical lanolin for the manufacture of most lubricating oils and greases; and lanolin alcohols for the manufacture of hormones, etc.

Industrial emulsification problems of industry interested the company's technical department, and over the years considerable experience and technical knowledge has been built up, together with an extensive range of emulsifiers and surface-active agents. The company's position in the emulsification field was improved by two commercial alliances. In 1951 the company purchased a 50 per cent. interest in Ultrasonics, Ltd., Otley, who specialise in the use of ultrasonic waves to solve emulsification problems. In 1953, the company purchased C. M. Keyworth & Co., Ltd., producers of emulsifiers of all types.

Since the 1939-45 war strong efforts have been made to increase exports, and almost one-third of the company's present production is exported, much of it to dollar areas. An associate company was set up in New York in 1950, and in 1955 a company was established in Italy, to manufacture and distribute lanolin throughout the country and in Southern Europe generally.



Left, the south side of Cowick Hall, the new headquarters of Croda, Ltd. Right, directors of the company with their wives and Lord and Lady Downe at the opening ceremony.



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Vitamin D 400 I.U.
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Riboflavine (B₂) 2 mg.
Ascorbic acid (C) 35 mg.
Niacinamide 7 mg.

Vitamin B₁₂ 1 microgram
(as present in concentrated extractives
from streptomyces fermentation)
Vitamin K (Menadione) 0.5 mg.
Folic Acid 1 mg.
Calcium (in CaHPO₄) 250 mg.
Phosphorus (in CaHPO₄) 190 mg.

Dicalcium phosphate
anhydrous (CaHPO₄) 869 mg.
Iron (in FeSO₄) 6 mg.
Ferrous sulphate exsiccated 20 mg.
Manganese (in MnSO₄) 0.12 mg.
In bottles of 100 and 1,000



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FIGURES IN THE PHARMACEUTICAL WORLD

THE character and potentialities of the successor to Professor Berry as Dean of the School of Pharmacy may have an important bearing on the future development of pharmacy.

Professor Wilfred H. Linnell, D.Sc., Ph.D., F.P.S., F.R.I.C., has a few years of office to look forward to before arriving at the age at which, in normal circumstances, London University professors retire. They are important years because, as has happened with other great innovators, it was not given to Professor Berry, after seeing the edifice of which he had been the prime architect, take shape, to become one of its occupants. His may have been the drive that has established an Honours Degree as the school's minimum hall-mark. To others, and especially to Professor Linnell, comes the responsibility of ensuring that holders of the degree gain and justify recognition as a *corps d'élite* in pharmaceutical research.

For that rôle Professor Linnell is equipped by experience and attainments. He has been so close to Professor Berry, and for so many years, that he has partnered him in every step forward to the "new" school from basic idea to concrete achievement. Professor Linnell has so completely identified himself with the project that he is unlikely, by intention or purpose, to effect any essential change in the operation of the school during his tenure of office as Dean. For he will know better than anyone else that, before its impact on pharmaceutical education and pharmaceutical practice can be properly and impartially assessed, at least a decade must elapse. Any change of pattern within that time, and certainly any switch of aim, would make that assessment—necessary as most of those concerned with pharmaceutical training and policy would hold it to be—difficult or impossible.

Nevertheless no institution in which personal authority and responsibility are so great as in the conduct of a university school can proceed without the effects of a change of personality eventually becoming apparent. It is perhaps a possibility that under Professor Linnell a leaning towards fundamental research may become even more pronounced, for his whole career has been a determined concentration on research. Academic ambition governed in turn his earliest studies in pharmacy, the direction of his re-entry into civilian life after 1914-18 war service, his temporary "desertion" of pharmacy, and above all his return to the Square and the subsequent fulfilment of many hopes.

Strictly a native of Cheshire, for he was born at Sandbach, Wilfred Linnell acknowledges far stronger ties to Newcastle-on-Tyne where he was educated and where he served a four-year apprenticeship in the pharmaceutical business of William Rutter, Shieldfield. An early clue to the character of the apprentice could have been detected when he enrolled for evening classes for his Part I subjects, for he signed on for zoology—not then required—as well as chemistry and botany.



45. Professor W. H. LINNELL

His apprenticeship over and Part I gained, he went on to London in 1914 as a student at the Square, from which he secured both Minor (in July 1915) and Major (in April 1916), and gained also the silver medal of the Pharmaceutical Society. Within five weeks of passing the Major examination he was in France with the Special Brigade, Royal Engineers. He was wounded at Passchendaele, invalided home and in December 1918 demobilised. By that time his mind was made up that in pure science, and not in pharmacy, would be unfolded his life's work. It is important to note that he went back, not merely to being a student, but to Newcastle. From courses at Armstrong (now King's) College, he emerged not alone with a first-class Honours degree in chemistry (botany as subsidiary) but as Johnston Fellow and Prizeman, 1921, and Earl Grey Memorial Fellow, 1922. His Earl Grey Fellowship took him to Oxford where, at Lincoln College, he worked under W. H. Perkin. The normal outcome of his Oxford work would have

been an Oxford Doctorate in philosophy, but strong local patriotism took him back to Durham for his Ph.D., which he gained in 1924.

Still with his eyes averted from pharmacy he took a post with the national Fuel Research Station at East Greenwich, where he was one of the first to be concerned with the hydrogenation of coal, later so important nationally.

Then, in 1926, London University instituted a degree in pharmacy, and Dr. Linnell returned to the Square and to pharmacy, to take charge of the department of chemistry. He was appointed a Reader in Chemistry of the University, and it was mainly due to his efforts and enterprise that a research school in pharmaceutical chemistry was founded under university auspices. As a result of work done in that school he was awarded in 1938 the University's Doctorate of Science.

Innumerable original papers have been published as a result of work done in the department, Professor Linnell's own contributions totalling over 100.

The titles of them are too numerous to list, but it may be said that practically all are in the field of "pure" or fundamental research, and all aimed at investigating the relationship between chemical constitution and therapeutic activity. Professor Linnell adheres strongly to the principle that research at a university should be avowedly and exclusively fundamental, and that anything in the nature of industrial exploitation of a principle or discovery should be left to the laboratories of manufacturers. He is not, however, aloof from the commercial world, for he has acted for

a number of years as consultant to Glaxo Laboratories, Ltd., and as short-time consultant to other manufacturers whose activities lie within the pharmaceutical industry.

Elevation to the Professorship in Pharmaceutical Chemistry came in 1940. Other distinctions include membership of the British Pharmacopœia Commission and of the Codex Revision Committee, and the Professor is one of two British representatives on a working party of the Central European (formerly "Brussels Treaty") Authority.

He is a corresponding member of the Academy of Medicine in Brussels and the Academy of Pharmacy of Paris.

Since the pharmaceutical chemistry research school was established many graduates have passed through it into posts in industry, hospital pharmacy, teaching and—rarely—retail pharmacy. Some, including Adrien Albert, have acquired international reputation. It may be expected from Professor Linnell's Deanship, therefore, that new lustres will come to be reflected on research achievement at the School of Pharmacy of the University of London.



SALES CONFERENCE: Directors, representatives and members of the sales staff of C. L. Bencard, Ltd., Minerva Road, London, N.W.10, who attended the company's annual conference at Richmond, Surrey, December 19-21, 1956.

MANUFACTURERS' ACTIVITIES

Long Service Presentations.—Eleven long service presentations, six for over thirty years and five for over twenty-five years, were made to employees of Pinkerton, Gibson & Co., Ltd., at their offices in Edinburgh, during the 1956 Christmas period. The awards, wristlet watches, were presented by Mrs. A. Scott, wife of the managing director.

Recreation Club.—A new headquarters for the recreation club attached to the Widnes factory of W. J. Bush & Co., Ltd., was opened by Mrs. E. L. Bush (wife of the company's chairman) recently. The clubhouse is 142 ft. long by 34 ft. and the surrounding sports grounds cover 6½ acres. The pavilion provides facilities for games and for stage shows.



SHAVERS FOR TEST CRICKETERS: At a civic luncheon at Johannesburg, recently, members of the M.C.C. cricket team touring South Africa received Ronson electric shavers presented to them by Mr. S. Robin (agent in South Africa for Ronson Products, Ltd., London).

EXHIBITIONS AND FAIRS, 1957

BRITISH INDUSTRIES FAIR, Castle Bromwich, Birmingham, May 6-17.

BRITISH MEDICAL ASSOCIATION MEDICAL EXHIBITION (in conjunction with annual meeting), Newcastle-on-Tyne, July 15-19.

BRITISH PLASTICS EXHIBITION, Olympia, London, July 10-20.

BUSINESS EFFICIENCY EXHIBITION, London, June 17-27.

Daily Mail Ideal Home Exhibition, Olympia, London, March 5-30.

FACTORY EQUIPMENT EXHIBITION, Earl's Court, London, April 29 to May 4.

GIFT FAIR (first in London), Alexandra Palace, London, May 13-17.

GIFTS AND FANCY GOODS FAIR, Blackpool, February 4-8.

INSTRUMENTS, ELECTRONICS AND AUTOMATION EXHIBITION, Olympia, London, May 7-17.

LONDON MEDICAL EXHIBITION, New Hall, Royal Horticultural Society, London, November 18-22.

MEDICAL EXHIBITION, McLellan Galleries, Sauchiehall Street, Glasgow, April 29 to May 3.

OIL AND COLOUR CHEMISTS' ASSOCIATION NINTH TECHNICAL EXHIBITION, London, March 12-14.

PACKAGING EXHIBITION, Olympia, London, January 22 to February 1.

PHYSICAL SOCIETY'S EXHIBITION, Old and New Halls, Royal Horticultural Society, London, March 25-28.

PROTECTIVE CLOTHING AND SAFETY EXHIBITION (first), Olympia, London, May 13-17.

Overseas

BRITISH TRADE FAIR, Helsinki, Finland, September 6-22.

CHEMICAL INDUSTRIES EXPOSITION, New York, U.S.A., December 2-6.

COMMERCIAL AND SCIENTIFIC EXHIBITION, Montreal, Canada, June 24-26.

EUROPEAN FAIR, Strasbourg, France, September 7-22.

GERMAN INDUSTRIES EXHIBITION, Berlin, September 14-29.

GERMAN INDUSTRIES FAIR, Hanover, April 28-May 7.

INTERNATIONAL ATOMIC EXHIBITION, Amsterdam, Holland, June 16-August 31.

INTERNATIONAL AUTUMN FAIRS:—Frankfurt, Germany, September 1-5; Leipzig, Germany, September 1-8; Utrecht, Holland (Trade), September 3-12; Vienna, Austria, September 8-15.

INTERNATIONAL FAIRS:—Copenhagen, Denmark (Technical) March 5-13 (consumer goods) March 23-31; Ghent, Belgium (Flanders), September 7-22; Lille, France, May 4-19; Luxembourg, May 25 to June 9; Padua, Italy (and Packaging Salon), May 29 to June 13; Stockholm, Sweden (St. Erik's Fair), August 31 to September 15.

INTERNATIONAL INDUSTRIES FAIR, Brussels, Belgium, April 27 to May 12.

INTERNATIONAL PHOTOGRAPHIC AND CINEMATOGRAPHIC EXHIBITION, Gothenburg, Sweden, June 8-16.

INTERNATIONAL SAMPLES FAIRS:—Milan, Italy, April 12-27; Saarbrücken, France, April 13-28.

INTERNATIONAL SPRING FAIRS:—Leipzig, Germany, March 3-14; Utrecht, Holland (Trade), April 2-11; Vienna, Austria, March 10-17.

INTERNATIONAL TRADE FAIRS:—Frankfurt, Germany, March 10-14; Liège, Belgium, April 27 to May 12; Lyons, France, April 27 to May 6; Paris, France, May 25 to June 10.

SWEDISH INDUSTRIES FAIR, Gothenburg, May 18-26.

SWISS INDUSTRIES FAIR, Basle, April 27-May 7.

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TELEGRAMS: "CHEMICUS ESTRAND, LONDON"

Transport Economies for Distributors

THE introduction of fuel rationing and recent increases in transport costs make it necessary for business concerns to examine their transport arrangements. Most pharmaceutical distributors operate "C" vehicles. They were perhaps anticipating that regulations would be made that would allow wider use of those vehicles, so as to allow them to carry each other's goods.

A temporary authority has been given by some Regional Transport Commissioners to members of various trade associations to carry goods for other members in "C"-licensed vehicles, provided the work would normally have been done by "C" vehicles operated by the other member. The authority is for three months, but "short-term B" licences will eventually have to be obtained to cover the work. It will be appreciated that the licensing authorities have been asked to give sympathetic consideration to applications for "short-term B" licences, which are issued, for temporary work, for periods not exceeding three months. Armed with such a licence the vehicle owner can obtain more work from his vehicles by carrying for other firms and sharing the expense.

Naturally the authorities will not make indiscriminate grants of "short-term B" licences. They have to satisfy themselves of the advisability of the arrangement, and also that a definite fuel saving will result. If the licence is granted, care should be taken that the insurance arrangements are adjusted to cover the additional types of carrying.

The work done by vehicles may often be increased, and expense lessened, by close watch on the scheduling of journeys. The scrutiny is linked with the hours and rest periods of drivers, and the regulations on those matters should be well understood. For "C" vehicle drivers (there are certain variations for "A" and "B" vehicle drivers) the regulations provide that:—

1. No driver may drive for a period of more than 5½ hours, after which there must be a break of at least half an hour for rest and refreshment.
2. In any period of twenty-four hours (commencing at 2 a.m.) no driver may drive for more than eleven hours.
3. In any twenty-four hour period (calculated from the commencement of driving) there must be a main break of at least ten hours (the break may be reduced to nine hours if the driver is given a break of not less than twelve hours during the next succeeding twenty-four hours).

The half-hour rest period may be taken on the vehicle, provided the driver has some refreshment with him, but the main rest period must be taken at a place at which the driver can rest away from the vehicle.

The timing of the driving periods is important. The maximum period of eleven hours' driving in any twenty-four is calculated from 2 a.m., but the main rest period of ten, nine or twelve hours is taken from the time of commencement of driving.

By judicious arrangement of times the vehicle-owner may obtain additional work from vehicles and drivers, especially if there are two drivers on a vehicle. The breaks to be taken on the vehicle and the periods of non-driving may be classified as rest periods, and the vehicle in that way kept in operation for fourteen hours instead of the usual eleven.

Overseas Trade in November 1956

THE value of United Kingdom exports of drugs, medicines and medicinal preparations in November, 1956 was a record at £3.5 millions bringing the total for the eleven months of the year to £32.9 millions, against £32.5 millions in the corresponding period of 1955. Australia was the best customer for those goods, the value of her shipments being £402,103 against those to

EXPORTS	VALUE
Drugs, medicines, medicinal preparations (total)	£ 3,573,744
Vitamins	285,455
Penicillin salts	123,939
Penicillin injections	43,945
Penicillin tablets, ointments, etc.	42,080
Antibiotics other than penicillin	480,645
Quinine	14,350
Alkaloids, excluding quinine	99,779
Aspirin	116,540
Antihistamines	53,898
Antipaludics	101,714
Barbiturates	63,285
Liver extracts	21,446
Ointments and liniments	100,498
Insulin	52,433
Sulphonamides	155,905
Proprietary medicines	995,339
Unclassified medicines	779,331
Glycerin	61,767
Acetone	48,516
Citric acid	17,309
Salicylates	22,514
Perfumery and toilet preparations	
Lipstick, face powder, etc.	273,470
Dentifrices	188,981
Toilet soaps	240,538
Synthetic detergents	731,725

IMPORTS	VALUE
Vitamins	117,917
Antibiotics	38,335
Alkaloids	75,772
Proprietary medicines	22,522
Unclassified medicines	306,287
Borax	98,342
Iodine	2,595
Menthol	9,112
Essential oils	
Bergamot	9,743
Citronella	10,623
Clove	9,932
Geranium	8,494
Lavender	72,514
Lemon	29,852
Orange	13,565
Peppermint	147,612
Unclassified	223,094

India (the second largest market) of £241,084. Penicillin exports at £209,964 was less than half that of the other antibiotics. The items for which separate values are given in the official trade statistics are reproduced in the accompanying table. Those which were at their highest monthly level for the year included vitamins, barbiturates, antihistamines and proprietary medicines. Total imports of goods in the same category were valued at £560,833 and were the lowest for any month of the year apart from September.

The value of United Kingdom total exports during November was £291.8 millions being 11 per cent. higher than the average for the first ten months of the year. Imports amounted to £319.6 millions (£35 millions less than in October), and 2 per cent. below the monthly rate for the first ten months of the year. Imports in the latter part of the month were reduced by delays in the arrival of shipping diverted round the Cape. With re-exports, at £14.8 millions, the excess of imports (valued c.i.f.), over exports and re-exports (valued f.o.b.), was £12.9 millions in November.

SHARE MOVEMENTS, October to December 1956

BY A FINANCIAL CORRESPONDENT

TRADING and inquiry in the industrial department of the London Stock Exchange during the fourth quarter of 1956 were on a smaller scale than in the previous three months, with international politics once more the major factor, and with the trend of share prices mostly against holders. Final prices, however, were above the lowest levels reached. Drug-trade company shares made a good showing, the falls that took place being less marked than in other sections, and a fair number of securities even resisting the general tone by moving to higher levels.

Glaxo Laboratories 10s., for example, finished 5s. 6d. better at 35s. 9d., after having been transferred up to 36s. in the meantime. Firmness was also evident in Southalls (Birmingham) 5s., which closed nearly one shilling better at 8s. 3d., and in Boots Pure Drug 5s., which also finished 1s. 3d. better at 15s. 6d., and Yardley & Co. 4s., which closed at a new record of 32s. 6d.

Monsanto Chemicals 5s. were again the object of regular business and inquiry, closing without quotable change at 23s. 9d. after having been down to 21s. 4½d. Regular and appreciable trading was also done in Reckitt & Colman Holdings £1, which were valued at 42s. 6d., after having changed hands down to 38s. 3d. Borax (Holdings) £1 Deferred were again one of the main centres of interest of the entire industrial department. They finished about 6s. higher at 277s. 6d. During the six months just ended, therefore, those shares have appreciated by about 60s.

Price moves against holders were experienced in Aspro-Nicholas 5s., which closed nearly 2s. down at 13s. 3d., after an earlier decline to the "low" of 13s., and Beecham Group 5s., which closed one shilling down at 18s. 4½d. Evans Medical Supplies 5s. fell by sevenpence halfpenny, closing at 5s. 3d.

In the low-price share section, Dufay 2s. closed fourpence halfpenny lower at 1s. 5½d., involving a loss of about half of their 7½d. gain of the third quarter of the year. Ashe Chemical one shilling finished fractionally against holders at tenpence halfpenny, after having recorded the new low level of ninepence.

In the Preference-share section, the adverse trend of the third quarter of the year continued, and nearly all moves were downward. Boots (Eastern) 6 per cent. finished sixpence down at 19s. 6d., after having changed hands at the

Onward from Galen

A CURRENT CAUSERIE

DIETING is a subject in which pharmacists are interested professionally if not personally. They may therefore be interested in a formula evolved by a United States doctor (Dr. Ralph J. Slonim, jun., Hahnemann medical college, Philadelphia, Pennsylvania), which establishes the number of calories that should be consumed daily to bring about any desired weight loss in a month. The formula is:—

$$C = 11.4 (7H - 266 - 6L)$$

where C = the number of calories that can be consumed daily and cause a weight loss; H = height in inches; L = lb. per month weight loss desired. According to Dr. Slonim, an ideal weight exists for everyone (110 lb. for the first 5 ft. of height plus 5 lb. for every in. above that, with a 10 per cent. variation for body build). There is also an "ideal" number of calories which, when eaten daily, keeps the weight stable (when more than the required calories are consumed, the person gains weight); when he eats fewer calories, he loses weight. Starting with that premise Dr. Slonim worked out the formula given.

new "low" of 18s. 9d., and Savory & Moore 5½ per cent. finished sixpence down at 15s. 3d.

NAME OF COMPANY £1 units unless otherwise stated	1956		
	HIGH	LOW	LATEST
	s. d.	s. d.	s. d.
Albright & Wilson, 5s. ...	21 9	17 0	18 1½
Allen & Hanburys ...	54 3	51 9	51 9
Do. 7% Prefd. Ord. ...	22 0	19 3	19 3
Ashe Chemical, 1s. ...	1 8	9	10½
Aspro-Nicholas, 5s. ...	19 10½	13 0	13 3
Beecham Group, 5s. ...	22 10½	17 3	18 4½
Boots Pure Drug, 5s. ...	18 10½	13 1½	15 6
Boots (Eastern) 6% Cum. Prefd. A ...	21 9	18 9	19 6
Do. (Western) 7% Prefd. Ord. A ...	23 0	21 6	22 3
Borax (Holdings) Defd. ...	315 0	156 10½	277 6
British Drug Houses, 5s. ...	15 6	11 9	13 1½
Cussons, Sons & Co., 2s. ...	7 0	4 10½	5 3
Dubarry Perfumery, 1s. ...	1 0	6	8½
Dufay, 2s. ...	1 10½	4	1 5½
Evans Medical Supplies, 5s. ...	7 10½	5 1½	5 3
Gee, Arnold M., 1s. ...	2 1½	1 8	1 10½
Glaxo Laboratories, 10s. ...	36 0	26 7½	35 9
Do. 8% Prefd. Ord., 10s. ...	14 6	11 9	12 7½
Greeff Chemical Holdings, 5s. ...	19 0	14 6	15 10½
Howards & Sons ...	14 3	7 3	7 3
Ilford, 5s. ...	15 7½	11 4½	13 3
Monsanto Chemicals, 5s. ...	30 4½	22 6	23 9
Reckitt & Colman Holdings, £1 ...	44 6	34 6	42 6
Sangers, 5s. ...	15 9	12 3	14 1½
Savory & Moore, 5½% Red. Cum. Pref. ...	17 4½	15 0	15 3
Southalls (Birmingham), 5s. ...	9 3	6 0	8 3
Taylor's (Cash Chemists), London 6% Cum. Pref. ...	20 0	17 3	18 9
Taylor's (Cash Chemists) Trust 6% Cum. Pref. ...	19 6	17 6	18 7½
Whites (Timothy) & Taylors, 5s. ...	28 7½	21 10½	23 0
Do. 7½% Pref. ...	25 3	22 0	22 9
Yardley & Co., 4s. ...	32 6	26 10½	32 6
Do. A, 4s. ...	33 0	24 0	32 6
Do. 4½% Pref. ...	16 4½	14 3	14 6
Do. 5½% Pref. ...	19 3	15 6	16 0

One hundred years ago on January 2 died

ANDREW URE, M.D., F.R.S.

Writer and lecturer on materia medica, analytical and industrial chemist and pioneer in the application of chemistry to manufactures

By T. H. BISHOP, F.R.S.A.

JANUARY 2 is the centenary of the death of Andrew Ure, whose interests embraced pharmacy, medicine, pure and applied chemistry, industrial organisation, astronomy, and geology, and whose versatility was matched only by his industry. Born in Glasgow on May 18, 1778, Ure was educated at the Universities of Glasgow and Edinburgh. After taking his M.D. degree at Glasgow in 1801 he was appointed professor of chemistry and natural philosophy at the Andersonian University, later Anderson's College, Glasgow. There he introduced lectures in pharmacy, and in 1813 published *A New Systematic Table of the Materia Medica*, with an historical, critical, and explanatory dissertation on the operations of medicines. Drugs were divided into two main classes: those acting on the system generally and those acting on particular organs.

In addition to his other teaching commitments, Ure undertook a series of lectures on scientific subjects for the benefit of the Glasgow artisans. That was an entirely new departure, and the success of the experiment led to the introduction of similar classes by others both at home and abroad. Ure believed that industry and its workers would benefit if the men were acquainted with the processes, chemical and otherwise, involved in their particular trades.

Astronomy and geology were among his interests, and he lived for some years at the Glasgow Observatory, which he had helped to found. In a paper read before the Glasgow Literary Society in 1818 he showed an original turn of mind. He reported on certain electrical experiments he had performed on the body of a murderer after his execution, and suggested that it might be possible to resuscitate victims of suffocation from drowning or exposure to noxious vapours by stimulating the phrenic nerve, vagus, or great sympathetic. Ure's interest in geology led to the writing of a *New System of Geology*, 1829, in which he advocated the orthodox system of chronology, and stressed the importance of chemistry and physics in geological studies.

When he was approached regarding preparation of a new edition of the *Dictionary of Chemistry* originally compiled by William Nicholson, he took it on but underestimated the magnitude of the task. He soon found that much out-of-date material had been retained from edition to edition, and that passages had been taken from other works without verification. Despite the difficulties, Ure produced in 1821 a dictionary which showed his sound grasp of the chemical theories of his day. It is noteworthy that in it he adopted the notation for the elements proposed by Berzelius in 1819, only two years previously.

Analytical Work in London

In 1830 Ure gave up his post in Glasgow and went to London, where he practised as an analytical and commercial chemist. He did a considerable amount of work for the Board of Customs, receiving a fee of £2 2s. for each analysis he made. He received £800 for two years' work on an investigation into the means of estimating the quantity of sugar in sugar-cane. Ure enjoyed a great reputation for accuracy, and it is said that none of his analyses was ever proved incorrect.

In 1843 he published *The Revenue in Jeopardy from*

spurious Chemistry, demonstrated in Researches upon Wood-spirit and vinous Spirit. A cargo which was supposed to be naphtha was found on analysis to be pyroligneous acid, with a high content of alcohol. Ure considered it a clear case of customs evasion, and was critical of two eminent chemists, Thomas Graham and William Thomas Brande, who had been satisfied with samples which they had analysed.

Works on Manufactures

In 1835 Ure published *The Philosophy of Manufactures*, which included an extremely able review of occupational and environmental hazards to health. In his account of the cotton industry he wrote:—

Nothing strikes the eye of a stranger more in Manchester, than the swarms of empirical practitioners of medicine. Nearly a dozen of them may be found clustered together in one of the main streets; all prepared with drastic pills and alterative potions to prey upon the credulous spinners.

The Cotton Manufactures of Great Britain, 1836, was followed three years later by the first edition of the *Dictionary of Arts, Manufactures, and Mines*. The work was amazingly comprehensive, and excited the admiration of competent critics by the lucidity with which the complexities of the machinery and processes of various industries were explained. The magnitude of Ure's achievement may be judged by the fact that, when a French edition was in course of preparation, no less than twenty-six collaborators were engaged on the task.

Ure was a participant in the formation of the Pharmaceutical Society, an original member of the Royal Astronomical Society, and an honorary member of the Geological Society. He was elected Fellow of the Royal Society in 1822. In addition to the works already mentioned he wrote *The general Malaria of London*, 1850, and was responsible for the English translation of Berthollet's *Elements of the Art of Dyeing*. The Royal Society's catalogue lists fifty-three of his papers on physics and on pure and applied chemistry.

A PHARMACIST'S ANTHOLOGY MONASTERY PHARMACIES

From *Seven Years in Tibet*, by Heinrich Harrer

In the autumn the whole school goes off to search for herbs in the mountains. The boys enjoy the expedition tremendously though they are kept very busy. Every day they camp in a fresh place and at the end of their excursion they drive their heavily laden yaks to Tra Yarpa. This is one of the holiest places in Tibet. It contains a sort of temple in which the herbs are sorted and laid out to dry. In winter the youngest of these little monks have to grind the dried herbs into powders, which are kept in carefully labelled air-tight bags by the abbot in charge of the school. These schools serve at the same time as pharmacies from which anyone can get medicine gratis or for a small present. The Tibetans are really advanced in their knowledge of herbs and their healing properties, and I have often had recourse to them. The pills did not do my sciatica much good, but I staved off many a cold and fever with their herb-teas.

PHARMACEUTICAL SOCIETY OF NORTHERN IRELAND

Monthly meeting of Council

THE December meeting of the Council of the Pharmaceutical Society of Northern Ireland was held in Belfast on December 13, 1956, the president (Mr. C. A. Quinn) in the chair. Present were the vice-president (Mr. Walter C. Tate), Messrs. J. McGregor, R. Gibson, O.B.E., J. Caldwell, W. H. Boyd, J.P., P. R. W. Shinner, S. E. Campbell, H. F. Moore, C. E. Moss, W. J. Thornton, H. W. Gamble, O.B.E., J. Kerr, H. G. Campbell, G. E. McIlhagger, A. Templeton, J.P., W. S. Hall, the treasurer (Mr. James Irwin) and the secretary (Mr. William Gorman). Apologies were received from Professor Mayrs, Dr. R. G. R. Bacon, Mr. W. P. Ewart, J.P., and Mr. F. R. Moore.

Equipment for Examinees

The minutes of the November meeting were adopted on the motion of Mr. McILHAGGER, seconded by Mr. CALDWELL. Mr. GORMAN reported that at the previous meeting of the Council there had been a discussion on equipment in the pharmacy department of Belfast College of Technology. He said he had written to the College authorities pointing out that two of the Society's examiners had made adverse comments on some of the microscopes. He had now received a letter from the College thanking the Council for the examiners' comments and stating that the Belfast Corporation technical instruction subcommittee had approved the purchase of a further twenty-four microscopes at a total cost of about £1,000. The College assured the Council that, in drawing up the specification for the instruments, the comments of the examiners would be borne in mind. The reply added that it was noted that the syllabuses required candidates to have experience of the use of a standard balance, and pointed out that it was proposed to review in April the department's supply of analytical balances involving the use of a rider. The new financial year commenced then. The Society's comments regarding the type required would be useful in deciding what balances should be purchased. Since the College's letter had been received, the Corporation Finance Committee were reported to have approved the purchase of the microscopes, and the recommendation had been sanctioned by the City Council.

Mr. GORMAN reported that, at the British Pharmaceutical Conference Dublin meeting, Mr. McIlhagger had made inquiries to find a speaker willing to give a talk on radio-isotopes at a Society "At Home." He had now received a letter from Mr. W. P. Hutchinson (Technical Irradiation Group, Atomic Energy Research Establishment) suggesting February as a suitable time. Mr. Gorman said that he had forwarded a number of dates to Mr. Hutchinson from which to choose.

The Ministry of Home Affairs, in a letter to the Council, referred to the records that must be kept by retailers of methylated spirits and methylated ether in accordance with Section 4 of the Intoxicating Liquor Act (Northern Ireland), 1923, as amended by the Intoxicating Liquor and Licensing Act (N.I.), 1927, and pointing out that the Ministry's inspector had reported that records kept of purchases and sales of methylated spirits by pharmaceutical chemists were in many cases inadequate. The Ministry asked the Council to draw the attention of members of the Society to the matter, and to remind them that the law must be complied with. Mr. W. H. BOYD suggested that the Council should forward a notice to each member drawing attention to the Ministry's circular. Mr. H. G. CAMPBELL said he was pleased to see that the matter had been brought up, as in country districts a number of licences had been issued to small grocers and other shops in places of small population. Mr. BOYD moved, Mr. CAMPBELL seconded, and the Council

agreed that the notice should be forwarded to members. Mr. Boyd inquired if the Council had received a circular from the Poisons Board on the question of bleach, and suggested that the matter should be incorporated with the notice sent to members about methylated spirits. He said the Poisons Board was of the opinion that bleach should not be put into bottles normally used for holding beverages. If it were put into a dark bottle he thought there would be little objection to it. The reason behind the Board's move was that young children, seeing bleach in a cordial or lemonade bottle, might think it was something to drink. He had been asked to see if the Board could get the co-operation of chemists in an effort to stop the practice. The Ministry of Health was co-operating with the Ministry of Home Affairs in making an approach to bleach manufacturers. Mr. S. E. CAMPBELL asked if it would not be possible to go the whole way, and make it compulsory for bleach to be sold in a bottle recognisable by touch.

Mr. GORMAN tabled a letter from a student who stated that he was taking a chemistry revision course for the Part One examination, having passed all the other subjects in June, and asking permission to sit for the December examination. He pointed out that, because of an error on his part, he had not entered for the examination on the specified date. The Council instructed the secretary to inform the candidate with regret that they could not accede to his application at that late stage.

The Society's Premises

The House Committee reported that, at its meeting on November 27, a complete inspection had been made of the Society's house. The Committee recommended that a spouting at the front entrance should be repaired forthwith, and that a general inspection of the roof should be carried out. At the previous Council meeting suggestions had been made that the Committee should report on the possibility of installing amplifying equipment in the lecture room, as some members had complained about the acoustics. The Committee had considered the matter, and, after inspecting the room, recommended that no action should be taken on that matter, but that the lecture room should be redecorated in a lighter colour. So far as the Council Chamber was concerned, the Committee recommended relighting the room and felt that the room also should be redecorated in a lighter colour. Mr. McILHAGGER said it would be rather expensive to carry out all the work at once, and asked if the Committee had made any recommendations as to the priority of the work. Mr. BOYD said he did not feel that the scheme would be expensive; he would be against postponing such schemes, as they would probably find them even more expensive at a later date. He congratulated the House Committee on the thorough manner in which they had carried out their work, and suggested that the work should be undertaken as soon as possible. The recommendations of the House Committee were approved on the motion of Mr. BOYD, seconded by Mr. MOSS.

The report of the Finance Committee was adopted on the motion of Mr. CALDWELL, seconded by Mr. GIBSON.

Mr. W. S. HALL (chairman of the Education Committee) reported that, as the result of the debate at the previous meeting of Council, he had met representatives of the College of Technology to discuss the types of reference books they required and which it had been suggested the Council might present to the College. Since then a list had been prepared which he submitted to the Council. Mr. McILHAGGER suggested that the list should be referred to the Education Committee for their consideration and for a

report to the Council at a later date. MR. BOYD felt the Council should give the Committee an indication of the amount of money that should be spent on the gift. MR. GAMBLE suggested that the matter should be left in the hands of the Committee as the Council should depend on their consideration of the question. MR. HALL thought it would be of assistance to his Committee if a ceiling were fixed by the Council. On the motion of MR. S. E. CAMPBELL, seconded by MR. THORNTON, it was agreed to spend on the gift a sum not exceeding £50. It was also agreed to invite a representative of the College to attend the meeting

of the Education Committee held to discuss the matter.

The Council agreed—on the motion of MR. BOYD, seconded by MR. MCILHAGGER, to hold the ceremony of presentation of certificates for the December examinations immediately before the January Council meeting, and that the ceremony should take place in the lecture room.

It was agreed, on the motion of MR. GAMBLE, seconded by MR. MCILHAGGER, to restore to the register from November 28, 1956, the names of ten pharmaceutical chemists. It was also agreed to restore from the date of his application, the name of James William Gilchrist.

Correspondence

Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.

Is It Right?

SIR,—Sir Hugh Linstead's recent pronouncements in Parliament cause me, a "rank and file" retail pharmacist, to feel dismayed. He should reflect that we form the bulk of the membership of the Society and, as such, contribute substantially towards his income. If he really holds the opinions that appear in the reports he should consider whether it is right to continue any longer to draw his livelihood from a source he holds in such sorry repute.

Brighton, 1

MARY BURKITT

Charity

SIR,—The forty-eighth part of a shilling (or is it one twenty-fourth part?) given to the chemist to recompense him for uncollected levies, is so ridiculously inadequate, especially since the increased charges, that in my opinion it is an insult to the pharmacist. If we are to be charitable, let us at least be charitable out of the goodness of our hearts. For the Ministry to make us compulsorily charitable and then to claim that we are recompensed is hurtful.

Maldon

ARTHUR E. WALLIS

A National Health Services Union?

SIR,—Doctors and pharmacists should co-operate in one professional union, together with opticians, dental surgeons, radiologists and the nursing profession. Such a union could meet the pressure of uninformed Civil Servants and misinformed Government departments. It could organise personal (patient-practitioner-pharmacist) relationships; clinics (children's, ante-natal, mental, etc.); preventive medicine (inoculations, vaccination, immunisation); hospital practice (control of medical stores, staffing, etc.); and an all-embracing medical service for Army, Navy and Air Force. It could organise a National Health Service far more efficiently than the Ministry of Health.

UNIONITE

Broadest Spectrum of All

SIR,—H. G. Hodder (proprietor: G. T. Culme) announces with pleasure the synthesis and availability of the unique combined antibiotic and tranquilliser SERENOMYCIN. Original material was obtained from a lichen growing freely on walls in Seringapatam. Prolonged clinical tests followed and finally synthesis, placing this won-

der drug within the reach of all. The medical profession now has at its disposal the broadest-spectrum antibiotic of all time united with a potent tranquilliser. In addition to its power in dealing with the older infections, SERENOMYCIN is the preparation of choice in such modern conditions as athleto-hysteria (vars. Socc. Rugg., and Wimbledon) while even Test Match fever has been brought under control with a single dose. There are no side-effects.

pp. H. G. HODDER
GEOFFREY T. CULME

Kingston-on-Thames

The Levy in Perspective

SIR,—The report of the debate in the House of Commons on November 29 (C. & D., December 8, 1956, p. 620) when the 1s. per item was talked for over three hours, is both frightening and interesting. The Government had obviously made up its mind. It had steadfastly refused to listen to the Press, the British Medical Association, Pharmaceutical Society, National Pharmaceutical Union and certain administrative bodies. One Member of Parliament said the new levy was a budgetary charge, and that he was disappointed by Sir Hugh Linstead's speech. He was not the only one. The levy is a tax on the sick and injured. Surely the fundamental conception of a Health Service is that the patient shall be able to consult his doctor, receive treatment and advice, and finally the medicines, etc., without fear of how much it will cost him at the time. It follows the doctor should not have thoughtful concentration and skill side-tracked by the consideration "how much will this cost my patient?" A pharmacist studying the figures is bound to ask whether the amount spent on drugs is really too much. Let us take the figures for England last year—in round numbers 210 million scripts on 121 million forms. Let us assume a population of 40 millions. That is about three forms per man, woman and child. If half the population used the service, that would only be six forms per patient per annum. In this thickly populated country of ours, is that really wildly excessive? We chemists are fed up with the drug bill being the Aunt Sally of the Service, I, for one, resent the way the Minister split up the costs, saying the levy at one shilling per item represented less than the average fee to the chemist,

so that the public were getting their prescribed requirements absolutely free! Even with naturally occurring coal and water we have to pay, as users, the costs involved in collecting and distributing them.

Exmouth

H. JARVIS GRAVES

Gee's Linctus, B.P.C.

SIR,—I am wondering what pharmacists generally are thinking about the present presentation of Gee's linctus, since that excellent preparation is in danger of being spoiled by the "antics" of some large manufacturing drug houses. It is common knowledge that a large manufacturer is offering Gee's linctus, supposedly B.P.C., as a clear, bright preparation of a dark colour which, in appearance at any rate, is not what the general public expect to receive for Gee's linctus. The company's product is sold both prepacked and in bulk, the latter claimed as official for N.H.S. dispensing purposes. On the other hand an even larger manufacturer has this month published information stating that, although it is technically possible to supply a clear preparation, such a presentation would not conform to the B.P.C. specification and could not therefore be sold under the official title or be dispensed against prescriptions. There would appear to be some truth in that, since it is not feasible that, in the technical process of clarifying the Gee's linctus, some of the camphor and oils are lost, or that the clarity is only achieved at the expense of the quality, particularly of the honey? Is it not a pity that, after all this time, the Codex Committee is still not able to offer reasonable guidance on the manufacture and presentation of linctus scillae opiatum, B.P.C. The only direction for method of making is "mix"—the result: a "mix-up" that is confusing to doctor, chemist and the public.

Gateshead.

J. R. GALE

An Election Candidate's Thanks

SIR,—I should like to express my keen appreciation and thanks to all those who so kindly supported my candidature in the recent elections. They may rest assured that I shall always further the interests of the Irish Pharmaceutical Society. I also wish to express sincere thanks to all those who were so kind as to send me their many letters of congratulation.

Galway

LAURA CUNNIFEE

GUIDE TO NEW MEDICAMENTS

Information about proprietary products supplied principally on prescription.
Reprints on perforated gummed paper for affixing to index cards are obtainable.

THE CHEMIST AND DRUGGIST Guide to New Medicaments (January 5, 1957).

ADRENOR

MANUFACTURER: C. J. Hewlett & Son, Ltd., King George's Avenue, Watford, Herts. (Under licence from Carnegies of Welwyn, Ltd.).

DESCRIPTION: 2-mil ampoules containing 1 mgm. *l*-noradrenaline (as bitartrate) per mil.

INDICATIONS: Myocardial infarction; surgical shock of all types; phaeochromocytoma; pneumonia with circulatory collapse.

CONTRA-INDICATIONS: Administration during cyclopropane or chloroform anaesthesia; and in cases of impaired renal function showing oliguria.

DOSAGE: See manufacturers' literature.

HOW SUPPLIED: In boxes of six, twelve and 100 ampoules.

FIRST ISSUED: November 12, 1956.

REFERENCES: Barcroft and others, *Lancet*, 1951, **1**, 854. Gilmour, *Brit. med. J.*, 1955, **2**, 1248. Miller, *J. Amer. med. Ass.*, 1953, **152**, 1198. Shirley Smith, *Brit. med. J.*, 1954, **1**, 1341. Swan, H., *Lancet*, 1949, **2**, 508. Urcchio and others, *J. Amer. med. Ass.*, 1953, **152**, 607.

THE CHEMIST AND DRUGGIST Guide to New Medicaments (January 5, 1957).

RESPENYL

MANUFACTURER: The Crookes Laboratories, Ltd., Gorst Road, Park Royal, London, N.W.10.

DESCRIPTION: Tablets, each containing 100 mgm. guaiacyl glyceryl ether.

INDICATIONS: Stimulation of expectoration in hard, unproductive cough. Alleviation of cough associated with bronchitis, bronchiectasis, tracheobronchitis, influenza, bronchial asthma with secondary bronchitis, some cases of whooping cough; and in broncho-pneumonia as an aid to expectoration.

DOSAGE: *Adults*, 1 tablet every two hours (average dose, 6 tablets daily). *Children*, 2-4 tablets daily, according to age. The tablets should be swallowed whole. Treatment should be continued for three to five days after the condition has been brought under control in order to prevent a relapse.

HOW SUPPLIED: In bottles of twenty-five and 100 tablets.

FIRST ISSUED: October 25, 1956.

THE CHEMIST AND DRUGGIST Guide to New Medicaments (January 5, 1957).

CODELCORTONE*

MANUFACTURER: Merck Sharp & Dohme, Ltd., Hoddesdon, Herts.

DESCRIPTION: Tablets, each containing 5 mgm. prednisolone.

INDICATIONS: Rheumatoid arthritis, bronchial asthma and various inflammatory skin diseases including atopic and contact dermatitis, urticaria and dermatitis herpetiformis.

DOSAGE: See manufacturer's literature.

HOW SUPPLIED: In bottles of thirty and 100 tablets.

FIRST ISSUED: October 1956.

*New cross reference for card index.

PREDNISOLONE: See Codecortone, Cordex, Deltacortril and Delta-Stab.

THE CHEMIST AND DRUGGIST Guide to New Medicaments (January 5, 1957).

PROLADONE

MANUFACTURER: The Crookes Laboratories, Ltd., Gorst Road, Park Royal, London, N.W.10.

DESCRIPTION: A long-acting analgesic consisting of 1-mil ampoules, each containing 10 mgm. dihydrohydroxycodone pectinate.

INDICATIONS: Post-operative pain control. Control of pain due to inoperable carcinoma.

DOSAGE: 1 mil by intramuscular injection, repeated when required.

HOW SUPPLIED: In box of six 1-mil ampoules.

FIRST ISSUED: September 13, 1956.

NOTE: The preparation is S.I., D.D.A. (each ampoule containing 11 mgm. oxycodone base).

THE CHEMIST AND DRUGGIST Guide to New Medicaments (January 5, 1957).

PARMACETYL

MANUFACTURER: E.G.H. Laboratories, Ltd., 52 Peru Street, Adelphi, Salford, 3, Lancs.

DESCRIPTION: Oral tablets, each containing 0.324 gm. cetaceum, 0.162 gm. ethyl hydroxy ethyl cellulose, 0.130 gm. magnesium hydroxide.

INDICATIONS: Symptomatic treatment of haemorrhoids and allied conditions. To give subjective relief, stop bleeding, relieve irritation and inflammation.

DOSAGE: 3 tablets at bedtime; 3 tablets immediately on rising; 2 tablets at bedtime the second night; 2 tablets on rising the second morning; and if necessary 2 tablets on rising the third morning.

HOW SUPPLIED: In tube of twelve tablets.

FIRST ISSUED: October 10, 1956.

NOTE: No alcoholic drinks should be taken during treatment.

THE CHEMIST AND DRUGGIST Guide to New Medicaments (January 5, 1957).

TANCOLIN

MANUFACTURER: S. Maw, Son & Sons, Ltd., Aldersgate House, Barnet, Herts.

DESCRIPTION: A tangerine-flavoured cough linctus specifically prepared for children. The percentage composition w/v is as follows: Theophylline, 0.33; ethylmorphine hydrochloride, 0.025; sodium antimonyl tartrate, 0.00125; ascorbic acid, 0.25; citric acid, 1.0; sodium citrate, 2.0; glycerin, 20.8.

INDICATIONS: Treatment of cough associated with the common cold, bronchospasm, bronchitis and inflammatory and catarrhal affections of the respiratory tract.

DOSAGE: *Age 6 months to 1 year*, $\frac{1}{2}$ teaspoonful; *1 year to 3 years*, 1 teaspoonful; *3 years to 6 years*, 2 teaspoonfuls; *6 years to 12 years*, 3 teaspoonfuls.

HOW SUPPLIED: In 3-oz. plastic screw-capped bottle.

FIRST ISSUED: September 1, 1956.

THE CHEMIST AND DRUGGIST Guide to New Medicaments (January 5, 1957).

FYDAL

MANUFACTURER: Boots Pure Drug Co., Ltd., Station Street, Nottingham.

DESCRIPTION: Multi-layered tablets, each containing 10 mgm. isoprenaline sulphate in the outer coat, 48 mgm. butobarbital in the middle layer, and 32 mgm. ephedrine hydrochloride and 64 mgm. theophylline in individually enteric-coated granules in the core.

INDICATIONS: Prophylaxis and relief of bronchial asthma, especially at night.

DOSAGE: 1 tablet at first symptoms of attack.

HOW SUPPLIED: In foil-packs of ten tablets.

FIRST ISSUED: September 12, 1956.

THE CHEMIST AND DRUGGIST Guide to New Medicaments (January 5, 1957).

HEWFOLCO

MANUFACTURER: C. J. Hewlett & Son, Ltd., King George's Avenue, Watford, Herts.

DESCRIPTION: A pleasantly-coloured and flavoured cough syrup for children. Each drachm contains: Pholcodine, 1 mgm. (gr. $\frac{1}{60}$); sodium benzoate, B.P., 8 mgm. (gr. $\frac{1}{3}$); syrup of squill, B.P., 0.2 mil (min. 3) tincture of belladonna, B.P., 0.12 mils (min. 2); syrup of wild cherry, B.P.C., 1 mil (min. 15); raspberry-flavoured syrup, q.s.

INDICATIONS: Suppression of unproductive and troublesome cough.

DOSAGE: *Infants under 1 year*, 2 mils (30 min.); *children 1-5 years*, 4 mils (60 min.); *children over 5 years*, 8 mils (120 min.).

HOW SUPPLIED: In bottles of 4, 20 and 90 fl. oz.

FIRST ISSUED: November 12, 1956.

THE CHEMIST AND DRUGGIST Guide to New Medicaments (January 5, 1957).

TABLETS PENICILLIN-V-SULPHA, LILLY

MANUFACTURER: Eli Lilly & Co., Ltd., Basingstoke, Hants.

DESCRIPTION: Tablets, each containing penicillin-V, Lilly, 125 mgm.; sulphadiazine, 167 mgm.; sulphamerazine, 167 mgm.; sulphadimidine, 167 mgm.

INDICATIONS: Otitis media, bronchitis and other mixed respiratory infections, urinary infections, wound infections and for pre-operative and post-operative cover in surgery; and any condition where penicillin-V would be effective, and where additional protection against Gram-positive organisms may be an advantage.

DOSAGE: Average adult dose, 1 tablet four times daily (every six hours). That may be increased in serious infections to 1 tablet every three or four hours. The dosage for children is proportionate to age, but in very severe infections the adult dose may be needed.

HOW SUPPLIED: In bottles of twenty, 100, 500 and 1,000.

FIRST ISSUED: October 1956.

THE CHEMIST AND DRUGGIST Guide to New Medicaments (January 5, 1957).

DIPHENATIL*

MANUFACTURER: Glaxo Laboratories, Ltd., Greenford, Middlesex.

DESCRIPTION: Tablets, each containing 100 mgm. diphenamil methyl sulphate, a selective parasympatholytic agent.

INDICATIONS: Inhibition of gastric hypermotility, hypersecretion and pylorospasm so that peptic ulcer pain is relieved; treatment of chronic hypermotility and hypersecretion; hyperhidrosis and dermatoses aggravated by excessive sweating.

DOSAGE: Between meals. Initially, 1 tablet. When control has been established, a dose of $\frac{1}{2}$ or 1 tablet every four to six hours.

HOW SUPPLIED: In bottle of fifty tablets.

FIRST ISSUED: November 19, 1956.

*Cross reference for card index:

DIPHEMANIL METHYLSULPHATE: See Diphenatil.

THE CHEMIST AND DRUGGIST Guide to New Medicaments (January 5, 1957).

HYDRODYNE

MANUFACTURER: Merck Sharp & Dohme, Ltd., Hoddesdon, Herts.

DESCRIPTION: Tablets, each containing 2.5 mgm. Hydrocortone (hydrocortisone) and 0.3 gm. aspirin.

INDICATIONS: Rheumatoid arthritis, rheumatoid spondylitis, Still's disease, psoriatic arthritis and chronic collagen diseases.

DOSAGE: *Average maintenance*, 1-2 tablets four times daily. *Initial*, divided dosage up to 16 tablets daily may be required. Gradual reduction to maintenance dosage and gradual withdrawal of therapy recommended.

HOW SUPPLIED: In bottle of 100.

FIRST ISSUED: November 1956.

THE CHEMIST AND DRUGGIST Guide to New Medicaments (January 5, 1957).

LIPOSTABILDISTRIBUTORS: *In United Kingdom and Commonwealth:* John Ronaldson & Co., Ltd., 3 Crooked Lane, London, E.C.4. (MANUFACTURER: A. Nattermann & Cie, Germany.)DESCRIPTION: Capsules, each containing α and β -lecithins of soya bean, 175 mgm.; 3-4-5-polyoxyethylene sorbitol mono oleate, 100 mgm.; potassium theophyllinate potassium thiocyanate (addition compound), 50 mgm.

INDICATIONS: Prevention and treatment of circulatory disorders, e.g., coronary sclerosis.

DOSAGE: Unless otherwise ordered by the physician, 1 capsule with the morning meal and 1-2 with the midday and evening meals.

NOTE: During treatment with Lipostabil no aperients containing liquid paraffin should be taken.

HOW SUPPLIED: In glass tube of 100 capsules.

FIRST ISSUED: October 1956 (in the U.K.).

REFERENCES: Barritt, *Brit. med. J.*, 1956, 2, 640.

THE CHEMIST AND DRUGGIST Guide to New Medicaments (January 5, 1957).

BIOTRASE

MANUFACTURER: Lloyd-Hamol, Ltd., 11 Waterloo Place, London, S.W.1.

DESCRIPTION: A cream containing stabilised trypsin, 0.16 per cent.; Ca-N-hydroxymethylglutamate, 5 per cent.; 2,2' thiobis-(4,6-dichlorophenol), 0.5 per cent.; carbamide, B.P., 5 per cent.; in a polyethylene glycol base.

INDICATIONS: Superficial infected and necrotic lesions of all kinds, especially: (1) Varicose ulceration of the legs (including long-standing ulcers); (2) post-thrombotic and diabetic ulcers; (3) burns, including caustic burns; (4) traumatic wounds, bedsores and abrasions; (5) pyodermias (impetigo contagiosa, folliculitis barbae); (6) boils and carbuncles (following incision).

USE: The cream should be applied as evenly as possible over the diseased area once or twice daily until a clean granulating surface appears. If a thick crust is present or the ulcer is very foul, the cream may be used more often for several days. When healing is well advanced one application daily suffices. The ferment action is improved if the part treated is kept warm.

HOW SUPPLIED: In tube of 35 gm.

FIRST ISSUED: October 1, 1956.

REFERENCES: Samuels, *Angiology*, 1951, 2, 589. Madden and Ravits, *J. Amer. med. Ass.*, 1952, 149, 1616. Heilesen, *J. invest. Derm.*, 1953, 23, 7.

THE CHEMIST AND DRUGGIST Guide to New Medicaments (January 5, 1957).

DELTACORTONE*

MANUFACTURER: Merck Sharp & Dohme, Ltd., Hoddesdon, Herts.

DESCRIPTION: Tablets, each containing 5 mgm. prednisone.

INDICATIONS: Rheumatoid arthritis, bronchial asthma and various inflammatory skin diseases including atopic or contact dermatitis, urticaria and dermatitis herpetiformis.

DOSAGE: See manufacturer's literature.

HOW SUPPLIED: In bottles of thirty and 100 tablets.

FIRST ISSUED: October 1956.

*New cross reference for card index.

PREDNISONE: See Deltacortone.

THE CHEMIST AND DRUGGIST Guide to New Medicaments (January 5, 1957).

MIGRIL

MANUFACTURER: Burroughs Wellcome & Co., 183 Euston Road, London, N.W.1.

DESCRIPTION: Tablets, each containing ergotamine tartrate, 2 mgm.; caffeine alkaloid, 100 mgm.; cyclizine hydrochloride, 50 mgm.

INDICATIONS: Treatment of the symptoms of migraine. The drug is not a prophylactic.

DOSAGE: Initially, 1-2 tablets with a little water at the first warning of an attack, then—if necessary— $\frac{1}{2}$ -1 tablet every half-hour; not more than 4 tablets should be taken for any single attack.

HOW SUPPLIED: In packs of ten and 100.

FIRST ISSUED: November 1956.

THE CHEMIST AND DRUGGIST Guide to New Medicaments (January 5, 1957).

VASOCORT SPRAYPAK

MANUFACTURER: Menley & James, Ltd., Coldharbour Lane, London, S.E.5 (for Smith Kline & French).

DESCRIPTION: An anti-inflammatory nasal decongestant containing hydrocortisone alcohol, 0.02 per cent.; Paredrinex (*p*-hydroxy-amphetamine hydrobromide), 0.5 per cent.; phenylephrine hydrochloride, 0.125 per cent. Preserved with thiomersal 1:100,000.

INDICATIONS: Acute and chronic rhinitis; allergic rhinitis; sinusitis; and nasopharyngitis.

DOSAGE: *Adults*, spray three times in each nostril, and repeat every three hours. *Children*, spray once or twice in each nostril every three hours.HOW SUPPLIED: In $\frac{1}{2}$ fl. oz. polythene container (Spraypak).

FIRST ISSUED: September 1956.

NO CODE OF ETHICS

Galway chemist criticises "serious omission"

THE lack of a statement from the Pharmaceutical Society of Ireland on matters of professional conduct was described as a serious omission at the autumn meeting of Galway Chemists' Association at Athenry, recently. MR. K. BOWMAN (chairman), presiding, referred to the Association's achievement in having had Miss L. Cuniffe elected to the Society's Council, and also to the success of the British Pharmaceutical Conference in Dublin. It was a matter of regret that no statement had been issued by the Pharmaceutical Society of Ireland on matters of professional conduct. That omission was serious when such matters as the leakage of pharmaceutical lines and the travelling shop were considered. It was to be hoped that the new Pharmacy Bill would give the Society powers to exercise discipline over its members which had been lacking in the 1875 Act. It concerned them to have determined whether "van-on-the-road" distribution of pharmaceutical preparations was compatible with the professional status of a pharmaceutical chemist. He thought that that should be the subject of a ruling from the statutory body. Having quoted extracts from the Conference address given by Mr. F. W. Adams (a secretary and the registrar of the Pharmaceutical Society of Great Britain) on "Professional Conduct," Mr. Bowman said that it must be concluded that the chemist who distributed by van was guilty of professional misconduct, and that such indiscriminate distribution was not in the public interest. Mr. Bowman said that when medicines were sold without moral obligation, but merely from the profit motive, the patient — whether animal or human — was bound to suffer. That, he believed, was the reason for the Animal Remedies Bill. That such a Bill should prove necessary showed what could happen when pharmaceutical goods were supplied indiscriminately. It was far better for pharmacy in Ireland to introduce its own code of ethics than to have conditions forced on it later. It was in the public interest that the occasion should never arise when a Minister of State could say of pharmaceutical products what the Minister for Agriculture had said of veterinary medicines: that there were "widespread and persistent abuses."

MISS CUNIFFE, paying tribute to the chairman for his address, said that she would bring to the notice of the Society's Council the matters he had mentioned. She thanked all members who had supported her in the Council election.

After discussing a scheme proposed by the Wexford Federation of Pharmaceutical Chemists suggesting a modified examination for assistants (see C. & D., October 27, 1956, p. 452) MR. R. KILGARRIFF proposed and MR. G. O'NEILL seconded "That this Association has complete confidence in the educational and training programme being carried on by the Pharmaceutical Society, and it believes that the present course will produce a better type of assistant and pharmacist. The Associa-

tion also believes that the allowing of an unlimited number of apprentices would be a retrograde step, and that the Pharmaceutical Society has an obligation to its students and their parents that the standard of pharmacy should not deteriorate." The motion was carried unanimously.

MR. J. WHELAN reported on a meeting between chemists and doctors in Galway at which agreement had been reached on a number of matters including the discontinuance of the use of proprietary names on prescriptions, and

PRIZE-GIVING AT SUNDERLAND

Professor Todd advocates extra year's study

TO bring pharmaceutical education into line with other courses in advanced technology, an additional year's study was advocated by PROFESSOR J. P. TODD (head of the school of pharmacy, Royal College of Science and Technology, Glasgow) at the annual distribution of prizes of the pharmacy department of Sunderland Technical College recently. Mr. D. A. Wrangham (principal) was chairman.

MR. F. H. OLIVER (head of the department) stated that a further increase in students to a record figure meant that the department had reached the greatest possible size compatible with existing accommodation.

A New Future for Pharmacy

PROFESSOR TODD, who presented the prizes, said that the present pharmaceutical services compared unfavourably with those provided in his early days as a pharmacist, and quoted as an example the lack of an adequate service after 6 p.m. in many areas. He thought that the introduction of so many new drugs, with precise and accurately known actions on parts of the human body, would provide a new future for pharmacy. The future pharmacist must be able to advise the physician on the uses of those new therapeutic agents. The status of a pharmacist depended not so much on technical skill, but on a complete understanding of the properties of the dispensed drugs. Professor Todd suggested that, in order to produce pharmacists of the right type, a change of emphasis was required in the educational policy and the onus for that change rested with the Pharmaceutical Society's Council. Progress had been made by the revision of the standard of qualification necessary for entrance to the final courses, but that was not sufficient. The course must be brought into line with others in advanced technology by the addition of one year. Professor Todd concluded by urging students to make their opinions felt by taking an active part in the work of the Society through local Branches.

The prizes were presented as follows:—

Hope C. M. Winch memorial scholarship, Miss M. Lowson.

FIRST YEAR COURSE: South Shields Pharmacists' Association prize (pharmacy), Miss J. C. Burt; *Middleton prize* (pharmacy), Miss S. M. McDowell.

leakage of medicines from institutions. MR. LOHAN said that as a result of the meeting with the doctors leakages from Galway hospitals had stopped.

It was agreed, on the chairman's suggestion, that each member of the Association should subscribe towards sending £50 worth of penicillin to the Irish Red Cross for use in Hungarian relief. The treasurer's report, which showed a credit balance, was adopted.

The following officers were elected: *Chairman*, Mr. M. Fahy, Galway; *Vice-chairman*, Mr. R. Hayes, Portumna; *Secretary*, Mr. G. O'Neill, Galway; *Treasurer*, Mr. G. Commings, Galway. It was agreed that the next meeting should be held in Loughrea.

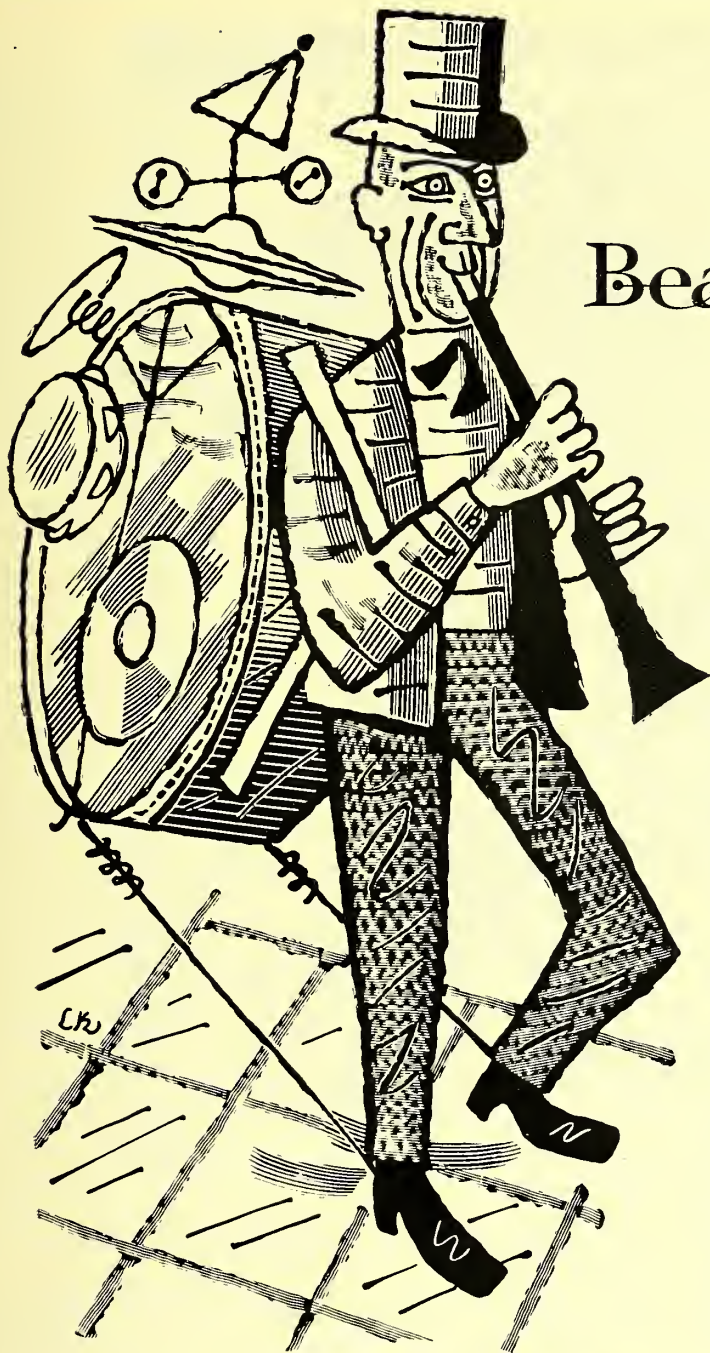
SECOND YEAR COURSES: Pharmacy IIB course prize, Miss M. Lowson; *Boots' prize* (pharmacy), Miss S. L. Elgie; *Bleasdale prize* (pharmaceutical chemistry), Miss J. Dans; *Sunderland Branch of the Pharmaceutical Society, chairman's prize* (pharmacognosy), Miss M. Scott; *Evans pharmaceutical prize* (pharmaceutics), J. D. England; *Mawson & Proctor Pharmaceuticals, Ltd., prize* (pharmaceutics), Miss P. L. Kettle; *Newcastle Branch of the Pharmaceutical Society prize* (pharmaceutical chemistry), D. Cowan; *Sunderland Branch of the British Pharmaceutical Students' Association chairman's* (1953-54) *prize* (physiology), J. D. England; *Durham County Branch of the Pharmaceutical Society prize* (practical dispensing), Miss P. A. Thirlwell.

THIRD YEAR COURSES: Pharmacy IIIA course prize, Miss D. Jackson; *Sydney A. Gamlen prize*, Miss E. Greenaway; *Hall Forster prize* (pharmacognosy), J. G. Davidson; *W. R. Clements' prize* (pharmaceutical chemistry), R. Vidhubhai Shah; *Tees-side Branch of the Pharmaceutical Society prize* (pharmaceutical chemistry), R. E. Bennett; *G. P. Fairman and Son, Ltd., prize* (pharmacology), J. H. Hughes; *Wilkinson & Simpson prize* (pharmaceutics), Alyne Marshall; *Whittem prize* (pharmacology), G. D. Duncan.

Sunderland Branch of the National Pharmaceutical Union (for contribution to the social and cultural life of the College), Miss P. L. Kettle; *THE CHEMIST AND DRUGGIST prize* (for best laboratory notebook), R. J. McCulloch.



HOSPITAL PHARMACISTS AT FOLKESTONE: A group of hospital pharmacists watch an ointment-mixing machine during a recent visit to the packaging plant of Pfizer, Ltd., Folkestone.



Beats the lot

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surface infections*

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TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, JANUARY 2: With the Christmas and New Year holidays restricting the number of trading days since the last report there has not been much activity in CRUDE DRUGS, although the undertone of the market has remained firm. Spot supplies of many commodities are now virtually exhausted, and dealers are awaiting new-crop deliveries.

Slightly easier last week were MENTHOL (down one shilling per lb.), African and Jamaican GINGER (down 5s. per cwt.) and GUM ACACIA (5s. per cwt.). COCHINEAL was dearer by 2s. per lb., with only a few parcels of the black-brilliant available on the spot. Firmer for shipment were China Star ANISE (up 5s. per cwt.) and CARDAMOMS (up ninepence per lb.). VANILLIN was reduced by threepence per lb. throughout the schedule.

The higher freight rates now in operation are reflected in the quotations of a number of ESSENTIAL OILS, including East Indian SANDALWOOD, PATCHOULI, Formosan PEPPERMINT, PETITGRAIN and BOIS DE ROSE. Spot VETIVER was increased also by 5s. per lb., bringing it to 95s. Among the oils which showed some weakness were CITRONELLA, SASSAFRAS, Brazilian PEPPERMINT for spot supplies, and LEMONGRASS for shipment.

The spot market is virtually bare of OLIVE OIL. First deliveries of the new crop are expected to arrive at the end of January, and quotations for the B.P. oil are about 31s. per gall.

The continued firmness and scarcity of ALOES has forced the manufacturers to increase the price of ALOIN. TANNIC ACID was marked up another sixpence per lb. recently. PILOCARPINE HYDROCHLORIDE and NITRATE are substantially increased, while SANTONIN is down by 115s. per kilo. It is expected that HYOSCINE will be marked up shortly. A schedule showing new rates for the various PARAFFINS is given below; as mentioned previously, both the liquid and soft varieties have been raised. Increases in the prices of many tonnage chemicals can be expected with the higher delivery charges now in force. Already precipitated SULPHUR is £2 10s. up at £112 10s.

Pharmaceutical Chemicals

ACETIC ANHYDRIDE.—10-ton lots are now quoted at £130 per ton, delivered U.K. in returnable drums; 1-ton lots, £132.

ALOID.—Spot lots are from 23s. per lb. p-AMINOSALICYLIC ACID.—The SODIUM salt is 26s. 6d. per kilo for 50-100-kilo lots.

ATROPINE.—Rates (per oz.) for 16-oz. lots are: ALKALOID, 23s. 6d.; SULPHATE, 19s. 6d.; METHONITRATE, 26s. 6d.; METHYLBROMIDE, 25s. 6d. Quotations for 1-oz. lots are 1s. 6d. above those rates.

BENTONITE.—Offers of B.P. material are about £70 per ton as to quantity.

BENZYL BENZOATE.—1-ton lots of B.P. grade are 4s. 6d. per lb.

BRUCINE.—ALKALOID is from 1s. 2d. to 1s. 6d. per oz. and NITRATE and SULPHATE from 1s. 1d. to 1s. 5d. per oz. (100-oz. and 25-oz. respectively).

CALAMINE.—1-cwt. lots are 1s. 10½d. per lb.; 10-cwt., 1s. 9d.

CALCIUM CARBONATE.—B.P. light-precipitated powder is £29 per ton, ex store. Minimum 1-ton lots.

LITHIUM SALTS.—Current minimum rates (5-cwt.) are as follows:—BENZOATE, 11s. per lb.; CARBONATE, B.P.C., 11s. 3d.; CHLORIDE (commercial), 10s. 9d. to 11s.; HYDROXIDE, 9s. 9d.; CITRATE, B.P.C., 9s.; SULPHATE, 8s. 6d.; SALICYLATE, 9s. 9d.; (10-cwt.), delivered.

MAGNESIUM CARBONATE.—Minimum bulk rate for LIGHT is 121s. per cwt.; HEAVY is 160s. per cwt. for 5-cwt. lots and about 135s. per cwt. for 1-ton lots, delivered U.K.

MAGNESIUM OXIDE, B.P.—Bulk rates are as follows:—LIGHT, 3s. 3d. per lb., and HEAVY, 5s. 10d. per lb.

MAGNESIUM TRISILICATE.—In 28-lb. packages the prices (per lb.) are now as follows:—28-lb., 4s. 9½d.; 1-cwt., 3s. 10d.; 5-cwt., 3s. 7d.; 1-ton, 3s. 1d.

MANDELIC ACID.—In 1-cwt. lots the price is 12s. 6d. per lb. with the CALCIUM SALT also 12s. 6d. SODIUM MANDELATE is 13s. and AMMONIUM MANDELATE 50 per cent. solution, 7s. 6d.

MERCURY DERIVATIVES.—Quotations (per kilo) for 50-kilo lots are as follows:—AMMONIATED, B.P. lump or powder, 60s.; PERCHLORIDE, B.P., powder, 52s. 6d. and lump, 53s. 6d.; SUBCHLORIDE (calomel) B.P., 61s.; OXIDES, B.P.C., levigated or yellow, B.P., 63s. 6d.

METOL.—In 1-cwt. lots the price is 24s. 6d. per lb.; 28-lb., 25s. 6d.; 14-lb., 27s.; 7-lb., 28s.

OLEIC ACID.—Price of pale distilled is 160s. per cwt. for 3½-cwt. original loaded drums.

OXALIC ACID.—Manufacturers' rates for 1-ton lots are from £129 per ton, delivered.

PARAFFINS.—Prices to wholesale distributors are:—Liquid: HEAVY, B.P. £106 12s. 6d. per ton; LIGHT, B.P., £86 10s.; Technical White oils, £76 15s. for the LIGHT and £90 5s. for the MEDIUM, all in 40-50 gall. returnable loaded drums, delivered U.K. Soft: WHITE, medium consistency is now £106 10s. per ton. WHITE, soft consistency, £104 7s. 6d., and YELLOW, £84 7s. 6d. all B.P., in non-returnable drums delivered.

PHENOL.—Basic price for ice crystals in drums is 1s. 4½d. per lb. (under 1-ton lots, 1s. 7½d.). Detached crystals, 2d. per lb. above and LIQUID B.P., ¼d. per lb. below the foregoing basic prices.

PHENOLPHTHALEIN.—Rate for 1-cwt. lots is 11s. per lb.

PHENYTOIN SODIUM.—B.P. is 23s. per lb. in 1-cwt. lots.

PILOCARPINE.—In 2½-kilo lots prices are: HYDROCHLORIDE, 996s. per kilo; NITRATE, 890s.

POTASSIUM CHLORIDE.—In 1-cwt. lots B.P., is 2s. per lb.

SANTONIN.—25-kilo lots are 620s. per kilo.

SODIUM SULPHITE.—1-ton lots on the spot of ANHYDROUS (48-50 per cent.) are £66 10s. per ton in 1-cwt. drums or £62 5s. in 1-cwt. bags; CRYSTALS, B.P.C., are £31 15s. per ton in 2-cwt. paper-lined bags. Commercial crystals are from £25 5s. to £27 as to packing.

STRYCHNINE.—Minimum rates per oz. (1,000-oz. lots) include:—ALKALOID, 5s. 7½d.; HYDROCHLORIDE, 5s. 3½d.; SULPHATE, 4s. 8½d.

TANNIC ACID.—The B.P. levis, ex ether is quoted at 6s. 3d. per lb. for 5-cwt. lots and 6s. 6d. per lb. for 1-cwt. The B.P. powder is 6s. per lb. in 1-cwt. lots.

UREA.—Manufacturers' rates for pharmaceutical grade are £63 per ton in 1-cwt. bags non-returnable. Technical quality is £44 10s. per ton.

ZINC CARBONATE.—In 1-cwt. lots the price is 1s. 9½d. per lb.

ZINC CHLORIDE.—B.P.C., cake from 4s. 6d. to 4s. 10d. per lb.; sticks from 5s. 10d. to 6s. 2d. per lb. TECHNICAL, 117s. 6d. per cwt.

ZINC PEROXIDE.—Price (per lb.) for 1-cwt. lots of B.P. is 5s. 3d.

ZINC SULPHATE.—B.P. in 1-cwt. lots is quoted as 1s. 9d. per lb.; technical, 60s. per cwt.

Alcohol

PRICES of plain BRITISH SPIRIT per proof gall. are as follows:—

Ethyl Alcohol: (95 per cent. Gay Lussac, 66 o.p.); where the number of proof gall. taken over any one year ended December 31 is 300,000 or over the price is 2s. 11½d.; 200,000 and less than 300,000, 2s. 11½d.; 100,000 and less than 200,000, 3s. 0½d.; 50,000 and less than 100,000, 3s. 0½d.; 10,000 and less than 50,000, 3s. 1½d.; 2,500 and less than 10,000, 3s. 1½d. Prices are exclusive of duty and are for tank wagon lots.

The following grades are subject to a premium on the above prices as follows:—

Absolute Alcohol, 99.5 per cent., 74.5 o.p., 3d. more per proof gall., the special high strength (99.9 per cent., 72.2 o.p.), 5d. more; Doubly-Rectified Alcohol (S.V.R.), 95.8 per cent., 68 o.p. is 4d. more and P.I. Rectified Alcohol, 96.1 per cent., 68.5 o.p., 8d. more. R. R. Absolute Alcohol (re-rectified), 99.7 per cent., 75 o.p.), 12s. 6d. per bulk gall. net.

Methylated Spirits

METHYLATORS' rates per bulk gall. in Great Britain are as follows:—

Industrial Methylated spirit: Strength 61 o.p., 500 gall. and over in one delivery, 5s. 3½d.; 100 gall. and under 500 gall., 5s. 6½d.; 30 gall. and under 100 gall., 5s. 9½d.; 10 gall. and under 30 gall., 6s. 2½d.; 5 gall. and under 10 gall., 6s. 7½d. Strength 64 o.p., 1d. per gall., 66 o.p. (B.P.), 2d.; 68 o.p., 2½d. more than the above rates with 74 o.p. at 6s. 1d. per gall. in lots of 500 gall. Tank wagon delivery is 1½d. per gall. off list price—minimum, 500 gall. For industrial methylated spirit of standard toilet quality prices are from 5s. 10½d. for 500 gall. to 7s. 2½d. for 5-10 gall. of 61 o.p.

Pyridinised industrial methylated spirit: Strength 61 o.p., 500 gall. and over, in one delivery, 5s. 6½d.; 100 gall. and under 500 gall., 5s. 9½d.; 30 gall. and under 100 gall., 6s. 0½d.; 10 gall. and under 30 gall., 6s. 5½d.; 5 gall. and under 10 gall., 6s. 10½d. Strength 64 o.p., 1d. per gall. more than foregoing rates.

Mineralised methylated spirit: Strength 61 o.p. in one delivery, 100 gall. and under 500 gall., 5s. 11d.; 30 gall. and under 100 gall., 6s. 2d.; 10 gall. and under 30 gall., 6s. 7d.; 5 gall. and under 10 gall., 7s. Strength 64 o.p., 1d. per gall. more than foregoing rates.

Methylated resin finish is 3d. per gall. over and methylated shellac finish is 1s. per gall. over the prices of pyridinised methylated spirit.

Terms:—Delivered free and carriage paid on returned empties; net cash one month.

Crude Drugs

ACONITE.—Spot supplies of Spanish *napellus* are 3s. 9d. per lb., duty paid.

ALOE.—Prime Cape for shipment is valued at 330s. per cwt., c.i.f.; spot, 345s.

ANISEED (STAR).—Chinese is 137s. 6d. per cwt., c.i.f., for shipment. Spot supplies are 150s., nominal.

BALSAMS.—Quotations (per lb.) are:—CANADA: Scarce. Spot value 30s. COPAIBA, 7s. 9d. to 11s., duty paid. PERU, 10s., duty paid. TOLU (genuine as imported), 26s. to 27s. 6d.; B.P., 17s. 6d. spot.

BELLADONNA.—Herb is 2s. 6d. per lb. on the spot. Root, 1s. 10d. spot; shipment, 1s. 3d., c.i.f.

CARDAMOMS.—Aleppy greens on the spot are 15s. 6d. per lb., and shipment, 15s., c.i.f.

CASSIA BARK.—Whole on the spot is now quoted at 120s. per cwt., in bond, with forward offers still unobtainable. Broken, 100s., in bond, and 87s. 6d., c.i.f., nominal.

CINNAMON.—Ceylon for shipment (c.i.f.) per lb., OOOO, 8s. 5d.; OOO, 8s. 3d.; OO 8s. 1d.; O, 7s. 11d.; firsts, 7s. 1d.; quillings, 4s. 11½d.; chips, 1s. 2d. to 1s. 4d.

COCHINEAL.—Black-brilliant is 28s. 6d. per lb. on the spot; Peruvian silver-grey, 14s. 6d.

GENTIAN.—French is 185s. per cwt., on the spot; Mediterranean, 165s.

GINGER.—African on the spot is 220s. per cwt. and February-April shipment, 205s., c.i.f. Jamaican No. 3 very short on the spot with holders asking from 720s. to 750s. per cwt. New-crop for shipment is from 600s. to 620s., c.i.f., as to position.

GUM ACACIA.—Kordofan cleaned sorts are 170s. per cwt. on the spot, afloat, 160s. c.i.f.

HENNA.—Spot market bare. New-crop awaited.

HONEY.—Australian light-amber is 142s. 6d. and medium-amber, 137s. 6d.; Argentine, 145s.; Jamaican, 147s. 6d. to 152s. 6d., all per cwt., on the spot.

HYDRASTIS.—Spot is not quoted. Shipment dearer at 28s. 6d., c.i.f.

IPECACUANHA.—(Per lb.) Colombian, spot, 49s., no shipment offers; Matto Grosso, no shipment offers. Nicaraguan, afloat, 52s. 6d., c.i.f. Costa Rican, spot, 56s.

JALAP ROOT.—Spot market bare of Mexican and no shipment offers. Brazilian is offered at 1s. 8d. per lb., spot.

KARAYA.—No. 1 gum on the spot is now quoted at 285s. per cwt., and No. 2 at 235s.

KOLA NUTS.—Jamaican are offered at about 8d. per lb., spot, and 6½d., c.i.f. African, 5½d.

LIQUORICE.—Natural root: Anatolian is 47s. 6d. per cwt. Russian, 52s. 6d. spot and 47s., c.i.f. Block juice: Anatolian, 200s. per cwt.; Chinese and British, 180s. on the spot. Italian stick from 310s. to 476s. per cwt. Spray-dried extract, 2s. 9d. per lb.

LOBELIA HERB.—Spot offers are about 9s. per lb., forward 8s., c.i.f., for American. Continental is 8s. per lb., spot.

LYCOPodium.—Spot market bare.

MACE.—Whole on the spot is 30s. per lb.

MENTHOL.—Chinese. Spot scarce at 56s. per lb., duty paid; afloat, from 51s. 6d. to 52s., c.i.f., as to position. Brazilian, spot, 45s. 6d., duty paid; January shipment, 41s. 6d., c.i.f.

MERCURY.—Per flask (76-lb.) £84.

NUTMEGS.—West Indian 80's not quoted; sound unassorted, 16s. 6d. per lb.; wormy and broken, 11s.

ORANGE PEEL.—West Indian bitter quarters are 11d. to 1s. per lb.; Spanish 1s. to 1s. 3d.

PAPAIN.—Spot value of East African is 28s. per lb. for grade 1.

PEPPERMINT LEAVES.—Dutch for shipment are offered from 2s. 6d. to 3s. per lb., c.i.f.

PIMENTO.—Spot is 590s. per cwt. with forward at 540s., f.o.b.

PODOPHYLLUM.—*Emodi* on the spot is cleared, *Peltatum* is 4s. per lb. spot, and 3s. 7½d., c.i.f.

PYRETHRUM.—Powder, 1 per cent., is 2s. 11d. per lb.

QUASSIA.—Chips are 42s. 6d. per cwt. on the spot, and 32s. 6d., c.i.f.

QUILLAIA.—Spot offers of bark at 220s. per cwt. with shipment 207s. 6d., c.i.f.

RAUWOLFIA.—*Serpentina* is offered from 4s. 3d. to 4s. 9d., landed terms, as to origin. *Vomitaria* is 2s. 6d., landed.

RHUBARB.—Quotations for Chinese are from 6s. 6d. to 9s. 3d. per lb., as to quality.

SAFFRON.—Mancha superior is 280s. to 290s. per lb., on the spot.

SARSAPARILLA.—Jamaican native red on the spot is 2s. 11d. per lb., and for shipment, 2s. 8d., c.i.f.

SASSAFRAS.—Selected bark is 5s. per lb. on the spot.

SEEDS.—(Per cwt.) ANISE.—Cyprian offering at 175s. spot; Bulgarian, 160s., duty paid. CARAWAY.—Dutch unchanged at 155s. spot, duty paid. CELERY.—Indian unobtainable on spot; 200s. quoted landed terms for afloat parcels. CORIANDER.—Steady. Spot, Moroccan nominally 95s.; Rumanian, 75s.; Bulgarian or Polish, 65s., all duty paid. Shipment, Moroccan quoted at 65s., c.i.f. CUMIN.—Market continues steady with small business passing. Spot, Cyprian, 132s. 6d.; Iranian, 130s., duty paid. DILL.—Indian is inclined to be firmer, 65s. quoted spot. FENNEL.—Indian is in small supply, 100s. quoted spot. FENUGREEK.—Indian on spot is 67s. 6d.; Moroccan, 70s., duty paid. MUSTARD.—English, 57s. 6d. to 80s., according to quality.

SENEGA.—Spot is 19s. 6d. per lb. with shippers asking 19s., c.i.f.

SHELLAC.—F.O.T.N., 335s. per cwt.; F.O. No. 1, 345s.; fine orange, 360s. to 400s.

SLIPPERY ELM.—Grinding quality bark is 2s. 6d. per lb.

SQUILL.—White is offered on the spot at 57s. to 62s. 6d.

STRAMONIUM.—Indian LEAVES are 70s. per cwt., and European 80s. on the spot.

STROPHANTHUS.—*Kombé* on the spot is 6s. 6d. per lb. for the 100 per cent.; *Gratus* is 11s. 3d.

TRAGACANTH.—No. 1 ribbon is £175 to £180 per cwt.; No. 2, £150.

TURMERIC.—Madras finger on the spot is 80s. per cwt. with new-crop, March-April 1957, 62s. 6d., c.i.f.

VALERIAN ROOT.—Indian on the spot is 140s. per cwt. Dutch (December shipment), 187s., c.i.f.

VANILLIN.—Lower. Rates (per lb.) are now:—5-cwt. lots, 27s. 3d.; 1-cwt., 27s. 6d.; 56-lb., 27s. 9d.; smaller quantities, 28s.

WAXES.—(Per cwt.) BEES'.—Dar-es-Salaam, shipment, 620s., c.i.f. spot, 630s.; Sudanese, 600s. duty paid and 560s., c.i.f. Abyssinian, spot, 580s., duty paid, afloat, 527s. 6d., c.i.f. CANDELLILLA.—Spot is 550s. CARNAUBA.—Fatty grey, spot, 570s. per cwt.; for shipment, 515s., c.i.f. Prime yellow, spot, 1,315s., nominal; shipment, 1,120s., c.i.f.

WITCH HAZEL LEAVES.—Spot supplies are 2s. 3d. per lb.; prompt shipment, 2s. 1d., c.i.f.

Essential and Expressed Oils

BOIS DE ROSE.—Brazilian is 27s. per lb. on the spot and 25s. 9d., c.i.f.

CITRONELLA.—Ceylon, spot, 6s. 9d.; afloat, 6s. 6d. per lb.; January shipment, 5s. 11d., c.i.f. Formosan for shipment is 9s., c.i.f., spot, 9s. 9d.

CLOVE.—Madagascar leaf is 9s. 3d. per lb., duty paid and 7s. 8d., c.i.f. for shipment. Rectified B.P., 17s. 6d.; 87-88 per cent., 12s. Distilled bud oil, English, from 28s. 9d. to 35s. as to quantity.

GERANIUM.—Bourbon is from 97s. 6d. per lb. on the spot and Algerian, 77s. 6d.

GINGER.—English-distilled oil is 205s. per lb. Imported oils are 165s. for Jamaican and 87s. 6d. for Chinese, duty paid.

HYATA.—Formosan, minimum 90 per cent. safrole, 4s. 10½d. per lb., spot.

LEMONGRASS.—Spot is 11s. per lb., and shipment, 10s., c.i.f.

LIME.—West Indian distilled is 45s. per lb. on the spot.

OLIVE.—Spot market is bare. New-crop, end of January delivery, quoted 31s. per gall.

ORANGE.—Spot quotations of sweet oil include Floridan at 3s. 11d. per lb.; Californian, 6s.; West Indian, 7s. 6d.; South African, 6s. 6d.; West African, 22s. For shipment, proprietary brand Californian cold-pressed, U.S.P., 13s. 2d., c.i.f. Terpeneless is 200s. per lb., spot; and bitter, 20s. per lb.

OTTO OF ROSE.—Turkish is £250 per kilo.

PALMAROSA.—East Indian, 52s. 6d., spot; 46s., c.i.f.; Formosan, 40s.

PATCHOULI.—Penang is 35s., duty paid, and 31s. 6d., c.i.f.

PENNYROYAL.—Spot is quoted from 17s. 6d. per lb., duty paid.

PEPPERMINT.—*Arvensis*: Chinese is 31s. 6d. per lb. on the spot and 29s. 6d., c.i.f. Brazilian, 22s., spot, and 21s., c.i.f. Formosan, 19s. 9d., c.i.f.; spot, 21s. Italian "Mitcham"-type oil on the spot is from 51s. to 57s. 6d.; American, 33s. 6d. to 37s. 6d. as to origin.

PETITGRAIN.—Paraguay, spot, 24s. 6d. to 26s. per lb., as to brand.

PIMENTO.—English-distilled berry is 185s. per lb.; imported, 80s. Rectified leaf, 27s. 6d. per lb. for small lots.

ROSEMARY.—Spanish oil is very firm on the spot at 6s. 6d. per lb., duty paid.

RUE.—Spot offers for small lots are now 17s. 6d. per lb.

SAGE.—Spanish is from 8s. per lb. on the spot and Dalmatian, 30s.

SANDALWOOD.—Mysore is 87s. 6d. per lb. on the spot and East Indian, 85s.

SASSAFRAS.—Brazilian is 3s. 9d. per lb., duty paid.

SPEARMINT.—Offers of U.S.P. grade are from 32s. to 34s. per lb. on the spot.

TANGERINE.—Sicilian is from 40s. per lb., on the spot.

THYME.—Spot is from 9s. to 14s. per lb., according to content.

VETIVER.—Spot is currently at about 95s. per lb.

UNITED STATES REPORT

NEW YORK, JANUARY 1: Trading was quiet during the holiday season in FINE CHEMICALS and CRUDE DRUGS. VANILLA BEANS were firmer with Bourbons quoted at \$7.50 per lb. (up 50 cents); whole Mexicans at \$8.50 (up \$1). CHAMOMILE FLOWERS continued scarce and prices were firm. ESSENTIAL OILS were largely unchanged with the exception of CLOVE BUD which moved five cents higher to \$2.90 per lb.

NOTES ON NEW MEDICAMENTS

COMMENTS on items given in *Guide to New Medicaments* (p. 18) especially to show their relationship—pharmacological or chemical—with other products or compounds.

ADRENOR.—*Chemistry:* Laevo-noradrenaline which is derived from adrenaline by the loss of the methyl group from the nitrogen atom of the side chain. It is a naturally occurring substance and exerts a powerful influence on the blood pressure by a general vasoconstrictor effect. In that way it differs from adrenaline, which increases blood pressure largely by an increase in cardiac output. Thus laevo-noradrenaline is of considerable value when physiological compensatory processes have failed, as it is both more powerful and less toxic than adrenaline. A similar preparation, available in similar strength, is Levophed.

BIOTRASE.—This trypsin-containing cream exploits the proteolytic properties of the enzyme to promote the healing of infected skin lesions. By removal of dead tissue by tryptic digestion, granulation of the tissues is encouraged and the activity of the other constituents of the cream is enhanced. Other trypsin-containing products include Trypure and Tryptar. Those however are simple trypsin and are intended for the selective removal of necrotic tissue as in empyema and general surgery.

CODELCORTONE.—Prednisolone. *Chemistry:* A derivative of hydrocortisone, differing from the parent drug only by a double bond link in the steroid nucleus. (Prednisone is derived from cortisone in a similar way). That slight change in structure is accompanied by a considerable increase in potency (4.5 times). That increase is not associated with any increase in side-effects, so that in therapeutic doses the dangers of salt and water retention are considerably reduced. Other prednisolone preparations include PreCortisyl, Deltacortril, Deltastab, Delta-Cortef, Codel-Cortone, Cordex, and Delta-Ef-Cortelan.

DELTACORTONE.—Prednisone. A derivative of cortisone, corresponding to prednisolone, which is derived from hydrocortisone. The effects and potency are similar to those mentioned under Codelcortone. Other prednisone preparations include Delta-Cortelan, Decortisyl, Ultra-Corten, and Delta-Cortone.

HEWFOLCO.—A cough depressant based on pholcodine (morpholinylethylmorphine). The compound resembles codeine (methyl morphine) and diamorphine in having a selective action on the cough centre, but is free from the side-effects of those other drugs. The auxiliary substances present in the linctus provide a balanced combination of antitussive compounds. Other pholcodine-containing linctuses include Ethnine and Collobel.

PROLADONE.—The product contains the synthetic alkaloid dihydrohydroxycodone in combination with pectin. That narcotic compound, once known as Eukadol, was originally prepared from thebaine. The new compound which is an effective analgesic of extended activity, appears to have fewer side-effects such as nausea and vomiting.

RESPENYL.—*Chemistry:* Guaiaacyl glyceryl ether. Guaiaol was once used extensively as a stimulating expectorant, particularly in tuberculosis, but its use faded when the drug was found to have no specific effect on the tubercle bacillus. Guaiaacyl glyceryl ether is a derivative of the older drug, with an increased mucus-liquefying action; it has applications when increased and easier expectoration is required.

N.H.S. ESTIMATES 1957 - 58

ROTHERHAM.—Total, £287,260.

WEST SUFFOLK.—Total, £414,130.

WEST RIDING.—Total, £4,755,400 (£140,385 more than in 1954-55); pharmaceutical services, £1,734,500 (an increase of £109,000).

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of week of insertion.

Monday, January 7

WEST KENT BRANCH, PHARMACEUTICAL SOCIETY, Beckenham library, at 8 p.m. Mr. Owen H. Waller (Editor, *THE CHEMIST AND DRUGGIST*) on "The Production of a Pharmaceutical Trade Journal."

LONDON SECTION, SOCIETY OF CHEMICAL INDUSTRY, Royal Society of Arts, 6 John Adam Street, London, W.C.2, at 6.30 p.m. Scientific films show.

Tuesday, January 8

EAST KENT BRANCH, PHARMACEUTICAL SOCIETY, County hotel, Canterbury, Kent, at 8 p.m. Mr. A. E. Hunter on "Defence Against Poliomyelitis."

EPSOM AND SUTTON BRANCH, PHARMACEUTICAL SOCIETY, Spread Eagle hotel, Epsom, at 7.45 p.m. Mr. A. R. G. Chamings (Ciba Laboratories, Ltd.) on "More of the Cortisone Story"; and film show.

SOUTH-EAST METROPOLITAN BRANCH, PHARMACEUTICAL SOCIETY, New Cross inn, 323 New Cross Road, London, S.E.14, at 8 p.m. Mr. J. C. Bloomfield (a member of the Society's Council) on "Candid Opinions on Current Affairs."

Wednesday, January 9

BIRMINGHAM PHARMACEUTICAL ASSOCIATION, Botanical gardens, Edgbaston, Birmingham, at 8 p.m. New Year carnival buffet-dance.

GLASGOW AND SOUTH-WESTERN SCOTTISH BRANCH, PHARMACEUTICAL SOCIETY, Craig's restaurant, 142A St. Vincent Street, Glasgow, at 7.45 p.m. Students' night.

HULL CHEMISTS' ASSOCIATION AND BRANCH, Imperial hotel, at 8 p.m. Mr. W. A. F. Macdonald (Parke, Davis & Co., Ltd.) on "Adam to the Atom."

IRISH PHARMACEUTICAL STUDENTS' ASSOCIATION, Metropole ballroom, Dublin, at 9 p.m. Dance in aid of Conference. Ticket, 5s., from central Dublin pharmacies.

LEEDS BRANCH, NATIONAL PHARMACEUTICAL UNION, Great Northern hotel, Leeds. Dinner and dance cancelled because of petrol restrictions.

MANCHESTER AND Salford BRANCH, PHARMACEUTICAL SOCIETY, Grand hotel, Aytoun Street, Manchester, at 6.30 p.m. President's evening.

WEST LONDON BRANCH, NATIONAL PHARMACEUTICAL UNION, Bonnington hotel, Southampton Row, London, W.C.1, at 7.30 p.m. Talk by Mr. A. Aldington (chairman, N.P.U.).

Thursday, January 10

BEDFORDSHIRE BRANCH, PHARMACEUTICAL SOCIETY, Conservative club, Market Hill, Luton, at 7.30 p.m. Social evening and make-up demonstration by a representative of Max Factor Hollywood and London (Sales), Ltd.

BIRKENHEAD AND WIRRAL PHARMACEUTISTS' ASSOCIATION, Hoylake Hydro hotel, at 7.30 p.m. Annual dinner and dance.

DURHAM COUNTY BRANCH, PHARMACEUTICAL SOCIETY, Waterloo hotel, Old Elvet, Durham City, at 7.45 p.m. Talk by Dr. J. R. Hawkings (Sedgefield mental hospital).

HARROGATE BRANCH, PHARMACEUTICAL SOCIETY, Blue Bird café, Parliament Street, at 7.30 p.m. Mr. G. N. Bailey on "Changes in Surgery Since the War."

SCARBOROUGH BRANCH, PHARMACEUTICAL SOCIETY, Palm Court hotel, at 7.30 p.m. Film show by Pfizer, Ltd.

MIDLANDS SECTION, SOCIETY FOR ANALYTICAL CHEMISTRY, Mason theatre, University, Edmund Street, Birmingham, 3, at 7 p.m. Mr. K. Gardner (Fisons, Ltd.) on "The Analytical Chemistry of Some Newer Insecticides and Herbicides."

Friday, January 11

CROYDON BRANCH, PHARMACEUTICAL SOCIETY, Greyhound hotel, High Street, Croydon, at 8 p.m. Mr. F. Hepworth (Croydon probation officer) on "Some Aspects of the Work of a Probation Officer."

NEWCASTLE AND NORTHUMBERLAND BRANCH, PHARMACEUTICAL SOCIETY, Royal Station Hotel, Neville Street, Newcastle-on-Tyne, at 7.30 p.m. Sir Hugh Linstead (a secretary of the Pharmaceutical Society) on "The Present Position of the National Health Service."

FINE CHEMICALS GROUP, SOCIETY OF CHEMICAL INDUSTRY, chemistry lecture theatre, King's College, Strand, London, W.C.2, at 7 p.m. Mr. J. L. Winfield (Glaxo Laboratories, Ltd.) on "Problems in the Packaging of Fine Chemicals."

TRADE MARKS

APPLICATIONS ADVERTISED BEFORE REGISTRATION

From the "Trade Marks Journal," December 19, 1956

For organic products for use in accelerating the formation of compost for agricultural and horticultural purposes (1)

Device with words FERTOSAN IN WORLD-WIDE USE, 757,205, by Fertosan, Ltd., Wolverhampton, Staffs.

For non-medicated toilet preparations (3)

LANOSET, 757,126, by Boots Pure Drug Co., Ltd., Nottingham.

For soap (3)

DR. LOVEACE'S, 758,192, by East Lancashire Soap Co., Ltd., Clayton-le-Moors, Lancs.

For non-medicated cleaning preparations for the skin (3)

KEROCLEANSE, 758,542, by Scientific Pharmaceuticals, Ltd., London, N.1.

For materials prepared for bandaging; surgical and hygienic dressings; plasters, gauze, cotton and tissues, all for medical and surgical purposes; and materials for dental purposes (5)

Device with the words JOHNSON & JOHNSON, 703,597, by Johnson & Johnson (Gt. Britain), Ltd., Slough, Bucks.

For pharmaceutical preparations for the treatment of cardiovascular renal dysfunction (5)

ROLICTON, 752,074, by G. D. Searle & Co., Skokie, Illinois, U.S.A.

For pharmaceutical preparations and substances (5)

Device with words CARLO ERBA, by Carlo Erba S.p.A., Milan, Italy. UVELINE, 758,547, by Laboratoires H. Chibret & Fils, S.A., Clermont-Ferrand, France. TROPHENIUM, 758,993, by Duncan, Flockhart & Co., Ltd., Edinburgh.

For pharmaceutical preparations and substances for human and veterinary use (5)

TRITHEON, 752,635, by Ortho Pharmaceutical Corporation, Raritan, New Jersey, U.S.A. NISOCORTEN, 758,510, by Ciba, Ltd., Basle, Switzerland. GLYPED, 758,931, by Imperial Chemical (Pharmaceuticals), Ltd., London, S.W.1.

For veterinary preparations in the form of cream (5)

VETRISUL, 752,636, by Ortho Pharmaceutical Corporation, Raritan, New Jersey, U.S.A.

For all goods (5)

ACHROVIM, 756,972, by American Cyanamid Co., New York, U.S.A. UNICHEM, 756,515, by Unichem, Ltd., London, S.W.17. NOTENSIL, 757,831, by Bengel Laboratories, Ltd., Holmes Chapel, Ches. GLYTONE, 758,207, by Cuxson, Gerrard & Co., Ltd., Oldbury, Worcs.

For medicated preparations for human use (5)

RYBELLS, 757,533, RYBEX, 757,535, by Boots Pure Drug Co., Ltd., Nottingham.

For pharmaceutical preparations and substances for use in the treatment of asthma (5)

ASMAPAX, B757,680, by Victoria Laboratories, Ltd., London, W.C.2.

For pharmaceutical preparations and substances for use in the treatment of the skin (5)

LEMSKIN, 758,397, by E. Griffiths Hughes, Ltd., Manchester.

For medicated confectionery (5)

MOLLIES, 758,428, by Boots Pure Drug Co., Ltd., Nottingham.

For paper tissues (not medicated) for cleansing the face (16)

FAYTEX, 755,251, by Bunzl Pulp & Paper, Ltd., London, E.C.1.

PRINT AND PUBLICITY

COMMERCIAL TELEVISION

PROGRAMME details are given to enable chemists to put in linking-up displays if they wish. Notice given is as far in advance of the programme date as can be guaranteed by the broadcasting companies.

January 13-19

ALL STATIONS

MONDAY: Knight's Castile soap.
TUESDAY: Knight's Castile soap.
FRIDAY: Elastoplast, Nivea.
SATURDAY: Knight's Castile soap; Pacquins hand cream.

LONDON STATION

SUNDAY: Gilbey's tonic wine.
MONDAY: Sanatogen tonic wine; Elastoplast; Nivea; Alka-Seltzer; Beecham's powders.
TUESDAY: Sanatogen tonic wine; Vaseline hair cream; Gilbey's tonic wine; Beecham's powders; Pure Silvikrin.
WEDNESDAY: Anadin; Silvikrin shampoo; Kleenex tissues.
THURSDAY: Gibbs' S.R.; Vaseline hair cream; Elastoplast; Nivea; Beecham's powders; Silvikrin hair dressing.
FRIDAY: Snowfire wave set; Anadin; Beecham's powders.
SATURDAY: Vaseline hair cream; Penetrol inhalant; Anadin; Alka-seltzer; Silvikrin shampoo; Kleenex tissues.

MONDAY-FRIDAY: Brylcreem.
DAILY, Tuesday-Friday: Phensic. Wednesday-Friday: Veno's cough mixture. Monday-Friday: Crookes halibut oil capsules. Monday-Saturday: Haliborange tablets.

BIRMINGHAM STATION

SUNDAY: Moorland indigestion tablets; Penetrol inhalant; Anadin.
MONDAY: Sanatogen tonic wine; Gilbey's tonic wine.
WEDNESDAY: Elastoplast, Nivea.
THURSDAY: Snowfire hand cream, wave set; Gibbs' S.R.
FRIDAY: Persomnia tablets; Anadin.
SATURDAY: Persomnia tablets; Penetrol inhalant; Gilbey's tonic wine; Strix tablets; Silvikrin shampoo; Pacquins hand cream.
DAILY, Monday-Friday: Crookes halibut oil capsules.

NORTHERN STATIONS

SUNDAY: Moorland tablets; Penetrol inhalant; Anadin; Zoflora.
MONDAY: Silvikrin hair dressing.
TUESDAY: Sanatogen tonic wine.
WEDNESDAY: Pure Silvikrin; Crookes halibut oil capsules.
THURSDAY: Snowfire hand cream, wave set; Zoflora.

FRIDAY: Gilbey's tonic wine.
SATURDAY: Penetrol inhalant; Gilbey's tonic wine; Fennings' cooling powders, mothers' ointment, rheumatism tablets; Strix tablets; Pacquins hand cream.
MONDAY-FRIDAY: Brylcreem.
DAILY, Monday-Friday: Beecham's pills; Tuesday-Friday: Beecham's powders. Wednesday-Friday: Veno's cough mixture. Monday-Saturday: Silvikrin shampoo.
THURSDAY-FRIDAY: Amami wave-set.

Medical Propaganda

Manufacturers' leaflets, folders, booklets, etc., directed to doctors but available to pharmacists.
BOOTS PURE DRUG CO., LTD., "Hydromycin for Inflammation and Infection (4-p. folder)."
THE BRITISH DRUG HOUSES, LTD., Graham Street, London, N.1. "Pernivit for Chilblains," "Dehydrocholin for the Bilious or Liverish Patient" (4-p. folders).

BRITISH SCHERING, LTD., 229 Kensington High Street, London, W.8: "Neo-Mercazole," "Orasecron for Secondary Amenorrhoea" (dosage cards); "Oblivon-C for Anxiety States" (4- and 8-p. folders); "The Low Toxicity of Carbimazole (6-p. folder)."

THE DISTILLERS CO. (BIOCHEMICALS), LTD., Fleming Road, Speke, Liverpool, 19: "Distaquaine V Oral Penicillin" (4-p. folder).

MERCK-SHARP & DOHME, LTD., Hoddesdon, Herts: "Codelcortone and Deltacortone, Analogues of Hydrocortisone" (8-p. folders).

ORGANON LABORATORIES, LTD., Lancaster Place, London, W.C.2: "Cortisone and Hydrocortisone" (11-p. booklet with dosage schemes and methods of administration).

PARKE, DAVIS & CO., LTD., Hounslow, Middlesex: "Ciroyl Synthetic Prune Laxative" (4-p. folder); "Chloromycetin-Hydrocortisone Ophthalmic and Ophthalmic Ointment" (leaflet).

ROUSSEL LABORATORIES, LTD., Harrow Road, London, N.W.10: "Sterogyl-15 for Chil-

blains" (4-p. folder); "Hydrocortisyl Skin Lotion" (4-p. folder); "Amenorone Forte for Secondary Amenorrhoea" (dosage card); "Soframycin Antibiotic Ointment" (8-p. folder); "Cortisone Range" (28-p. booklet); "Asmacort for Asthma" (6-p. folder).

Press Advertising

ORGANON LABORATORIES, LTD., Brettenham House, Lancaster Place, London, W.C.2: Endocil, In Woman and other leading women's magazines.

C. & D. WEEKLY LIST OF PRICES

A=Advanced; I.R.P.=Inclusive Retail Price; *Tax 30 per cent.; †Tax 90 per cent.

BROWN & POLSON, LTD. (from January 7)
Dextrosol glucose tablets I.R.P.
large 11½ A

DELAVALLE (SALES), LTD. (from January 1)
Go stick deodorant* 15 0 2 3 A
23 4 3 6 A

HINKSMAN & FORREST, LTD. (from January 1)
Dox.
Hinksman's asthma reliever* 21 6 3 0 A
asthma cigarettes* 21 6 3 0 A

MEGGESEN & CO., LTD. (from January 1)
Mcgeezones* 12 6 1 10 A
cough syrup* 12 6 1 10 A
Meggeson dyspnea tablets* 12 6 1 10 A

MENTHOLATUM CO., LTD.
Mentholatum nasal liquid
with applicator* 18 0 2 6 A

NEWTON, CHAMBERS & CO., LTD. (from January 1)
Izal germicide quart 50 0 5 6

G. D. SEARLE & CO., LTD. (from January 1)
Pro-Banthine with phenobarbitone tablets 40 18 8 R
100 39 9 R
1,000 374 9 R

P.A.T.A. LIST

(Alterations notified this week by the Proprietary Articles Trade Association.)

CULMAK, LTD. (from January 1)
Culmak Shaving Brushes:—
Spartan 19 5 2 11 R
Junior 26 3 3 11 R
Chum 40 0 5 11 R
Traveller 36 3 5 6 R
Senior 50 0 7 6 R
Fifty-Fifty 100 0 15 0 R
Fifty-Fifty Traveller 116 8 17 6 R
Fifty-Fifty Mark 2 140 0 21 0 R

J. G. INGRAM & SON, LTD. (from January 1)
Perfex enema 66 0 7 6 A

LUMA PRODUCTS, LTD. (from January 1)
Luma anti-rheumatic compound* 13 0 2 0 A
33 0 5 0 A
50 0 8 0 A

ADDITIONS TO THE LIST

MANSTON MEDICAL PRODUCTS, LTD.
Ipsolon rheumatic balm* 12 0 1 9
20 0 2 11
tablets* 12 0 1 9

NEW PRODUCTS

BURROUGHS WELLCOME & CO.
Cortisporin ointment 10 gm. 16 6

CHELSPA, LTD.
Tucal linetus* 4 fl. oz. 4 6
lozenges* 16 1 9

FASSETT & JOHNSON, LTD.
Tattoo lipsticks:—
Rock 'n roll red 9 7 1 11
21 6 4 3
Rock 'n roll pink 9 7 1 11
21 6 4 3

FLIP, LTD.
Flip flavours 1 0

MERCK SHARP & DOHME, LTD.
Each
Hydeltracin lotion 15 mls 16 0

POTTERS HYGIENIC PRODUCTS (LONDON), LTD.
Pyro picnic cooker and
8 fuel tablets 8 0
fuel tablets 8 3 0

C. & D. RETAIL AND DISPENSING PRICE LIST

The drug index for December was 203.6

Cost		Item	Selling price		
d.	per		4 oz.	1 oz.	1 dr.
			s. d.	s. d.	s. d.
183	500 gm.	Alcohol lanæ, B.P.	5 11	1 9	0 3
117	25 gm.	Argentum nitras cryst.	—	—	3 2
78	100 gm.	Balsamum Peruvianum	—	3 0	0 5
81	500 gm.	Cremor zinc. ox. et ol. ricini, B.P.C. ...	2 7	0 9	0 2
27	lb.	Dextrosol 3s. 4d. lb.	1 0	0 3½	—
360	gal.	Ol. arachis 4s. 6d. 16 fl. oz.	1 4	0 5	0 1
54	25 gm.	Ol. foeniculi	—	—	1 5
52	pt.	Ol. lini 5s. 3d. 16 fl. oz.	1 6	0 5	0 1
51	500 gm.	Ol. ricini 5s. 9d. 16 fl. oz.	1 8	0 6	0 1
129	500 gm.	Ol. theobromatis	4 2	1 2	0 2
84	500 gm.	Pulv. cretæ aromaticus	2 9	0 9	0 2
66	25 gm.	Quinin, hydrochloridum	—	—	1 9
26	25 gm.	Sulphathiazolum S.I. R only	—	4 3	0 8
72	500 gm.	Ung. zinc. ox. et ol. ricini, B.P. ...	2 4	0 8	0 2
177	500 gm.	Zingib. (Jam.)	5 8	1 8	0 3
195	500 gm.	Zingib. (Jam.) pulv.	6 3	1 10	0 3½

Cost				Tablets	Selling price			
S. per					25	30	100	500
25	30	100	500		s. d.	s. d.	s. d.	s. d.
			130 0	Prednisone 1 mgm.	12 9		45 0	195 0
8.5	37.5	120.0	580.0	5 mgm.	47 0	56 3	180 0	870 0
		30.0		Prednisolone 1 mgm.			45 0	
31.3	37.5	120.0	580.0	5 mgm.		56 3	180 0	870 0

The bold letter and figure at left of dispensing price relate to the classification of poisons in THE CHEMIST AND DRUGGIST Poisons Guide.

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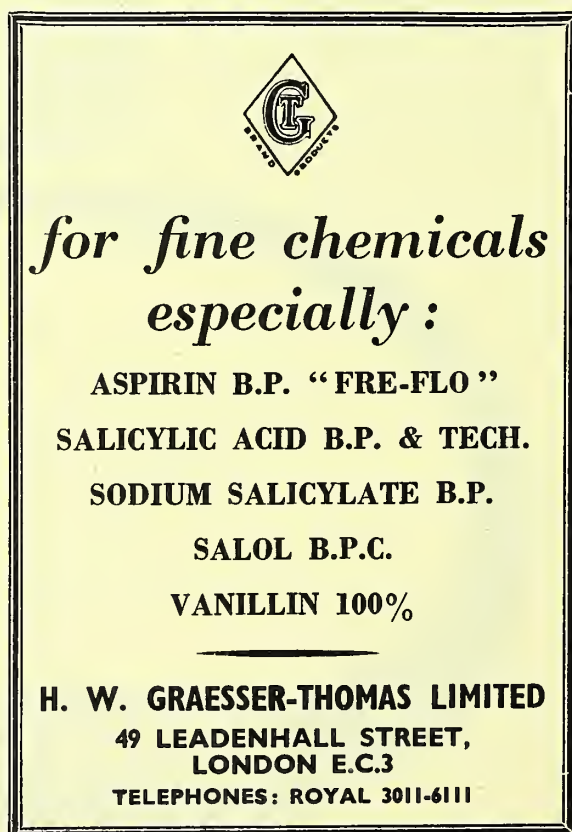
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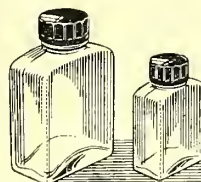
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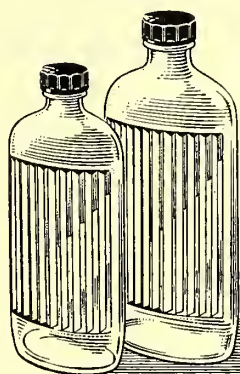
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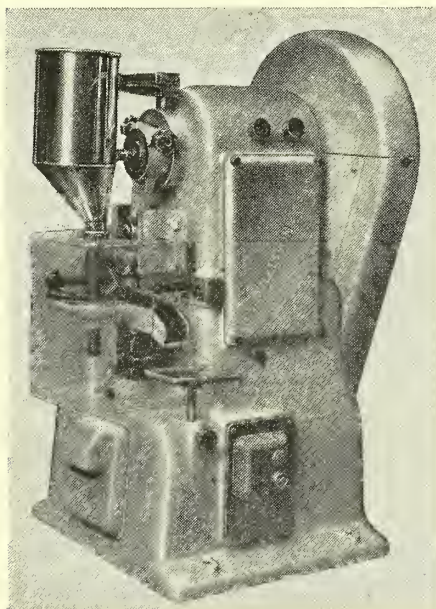
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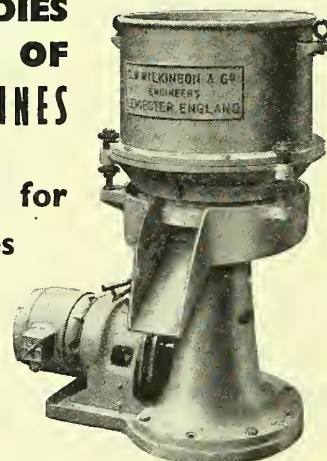
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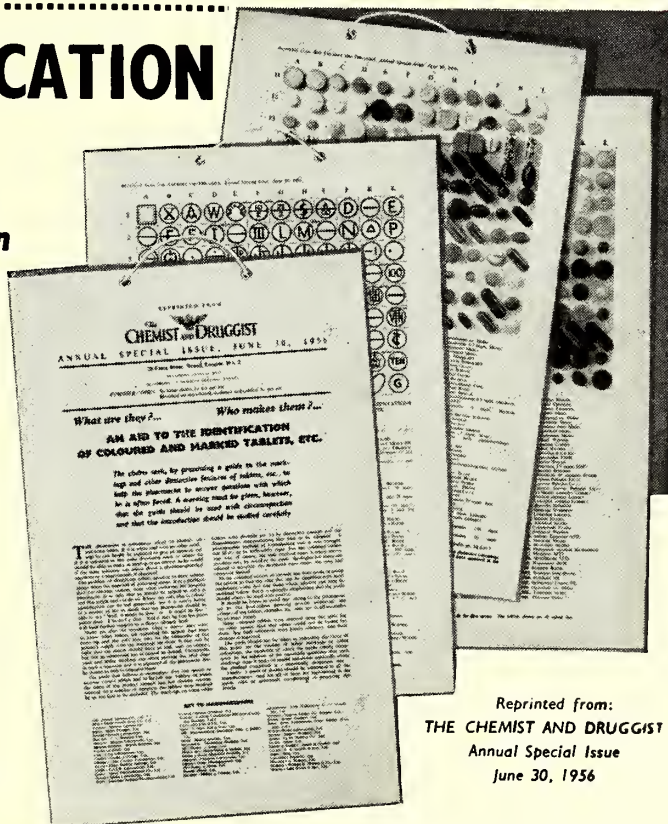
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Annual Special Issue
June 30, 1956

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62 $\frac{1}{2}$ %



For every 6 dozen or
more you get 14 to the
dozen. Profit ...

75%

For every 12 dozen or
more—15 to the dozen.
Profit jumps to ...

87 $\frac{1}{2}$ %

You pick any pattern you like—there are no
restrictions—and your supplier will send these
attractive counter dispensers with your order.



Dispenser No. A 628, packed with
2 dozen A 260 toothbrushes—th
1/6 value-for-money brush



Dispenser No. A 623, pack
with 1 dozen each of No. 1
(nylon) and No. A 265 (br
—both 5-Star top quality

Dispenser No. A 629, packed
with 'Noddy' toothbrushes
(‘Noddy’ is getting a big
boost on television!)
—1 dozen No. A 191 (nylon)
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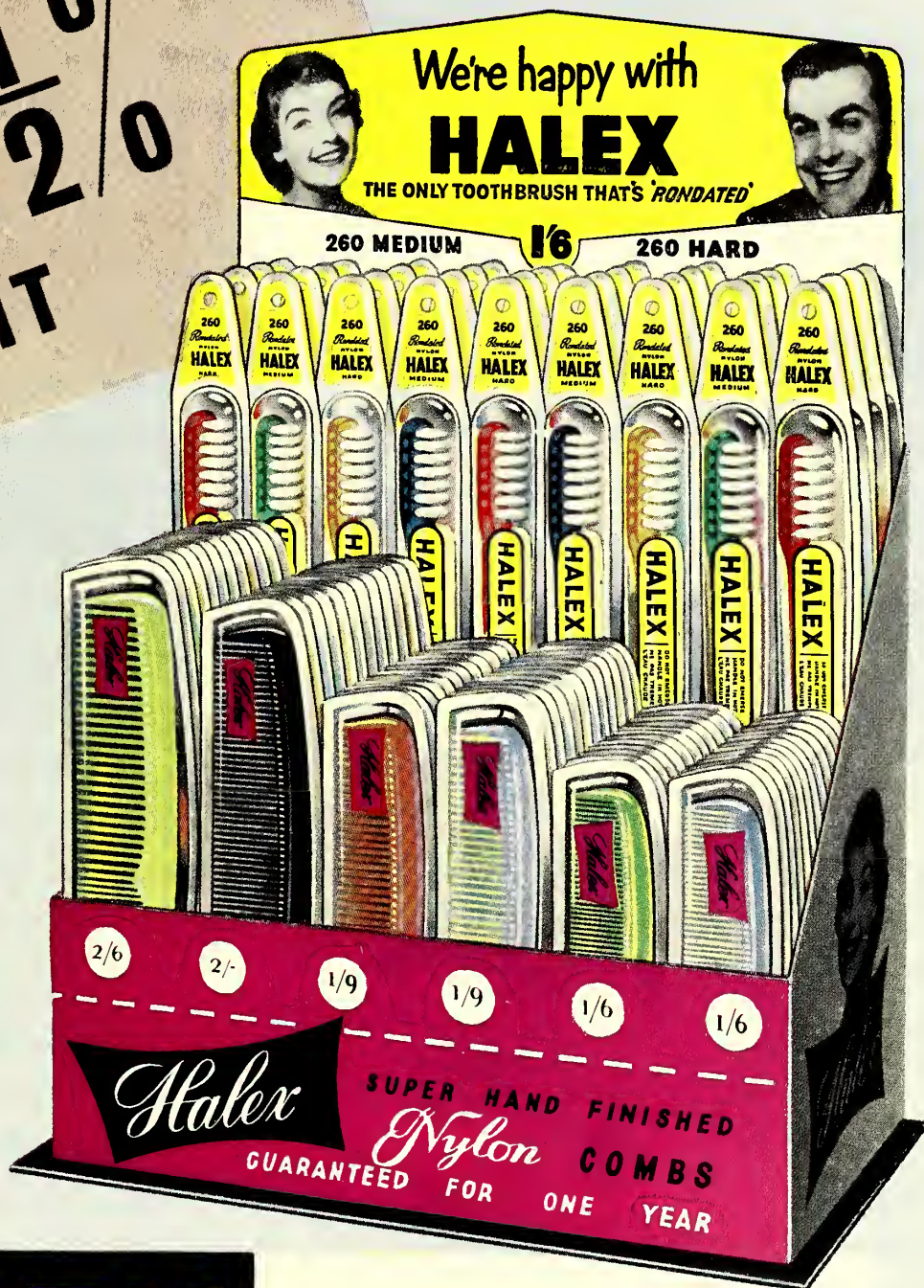


Dispenser No. A 622, packed
with 1 dozen each of
No. A 210 (nylon), No. A 250
(nylon) and No. A 260 (nylon).

your chance to earn
92 $\frac{1}{2}$ ⁰/₂⁰
PROFIT



This FREE dispenser contains 3 dozen No. A 260 toothbrushes and 6 dozen assorted nylon or acetate combs. Dispenser No. A 630 with nylon combs, No. A 631 with acetate.



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This attractive counter dispenser contains 6 dozen assorted combs and 3 dozen A 260 toothbrushes (the biggest Halex seller!).

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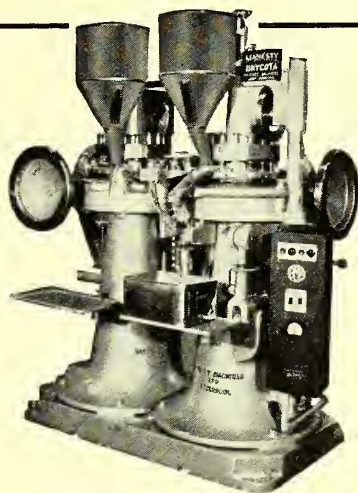
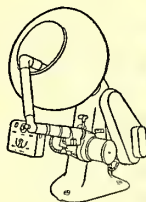
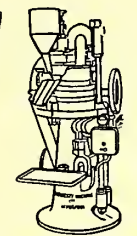
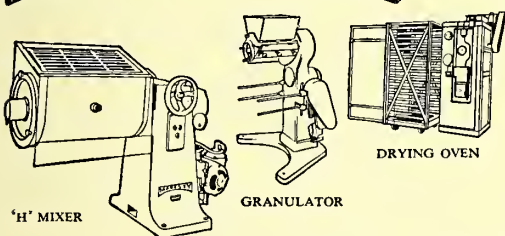
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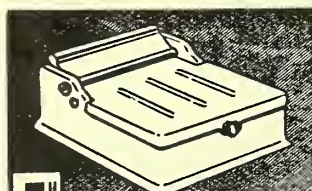
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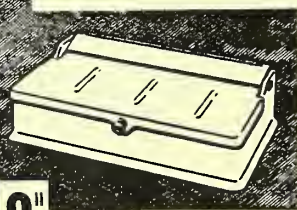
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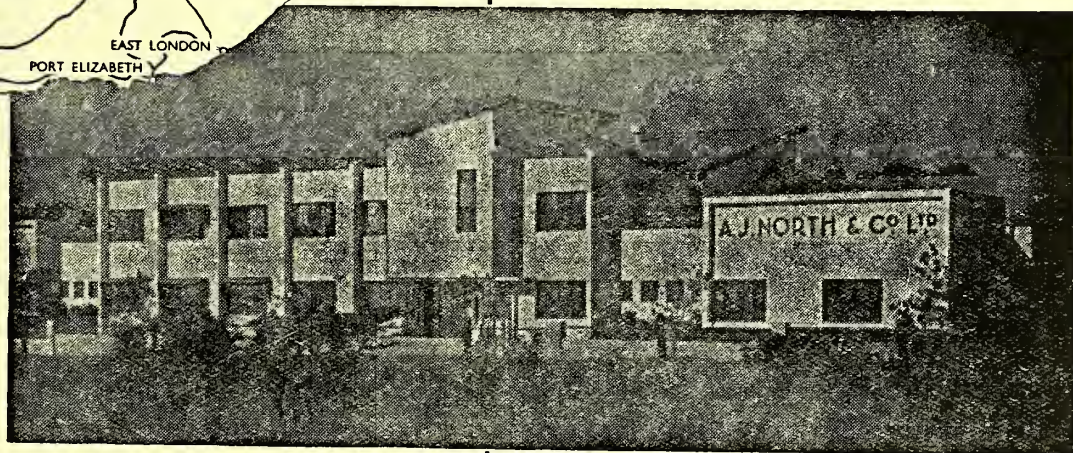
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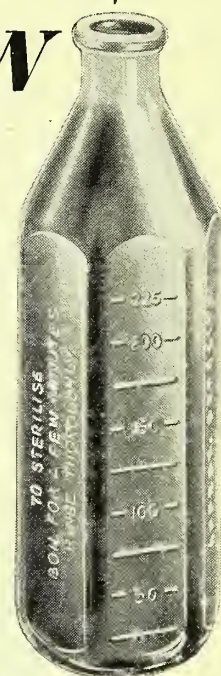
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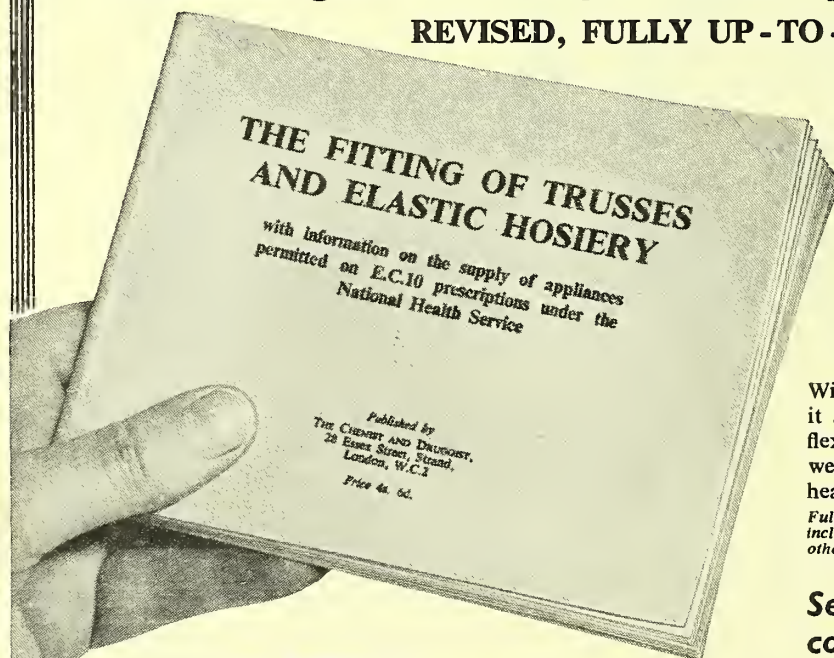
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NASAL OINTMENT

Indications: **HAYFEVER, NASAL CATARRH, RHINITIS**

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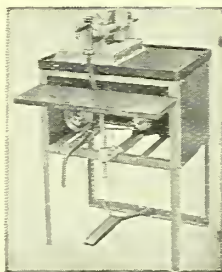
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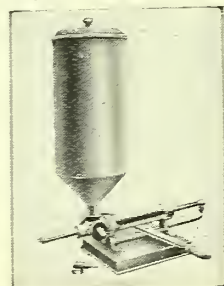
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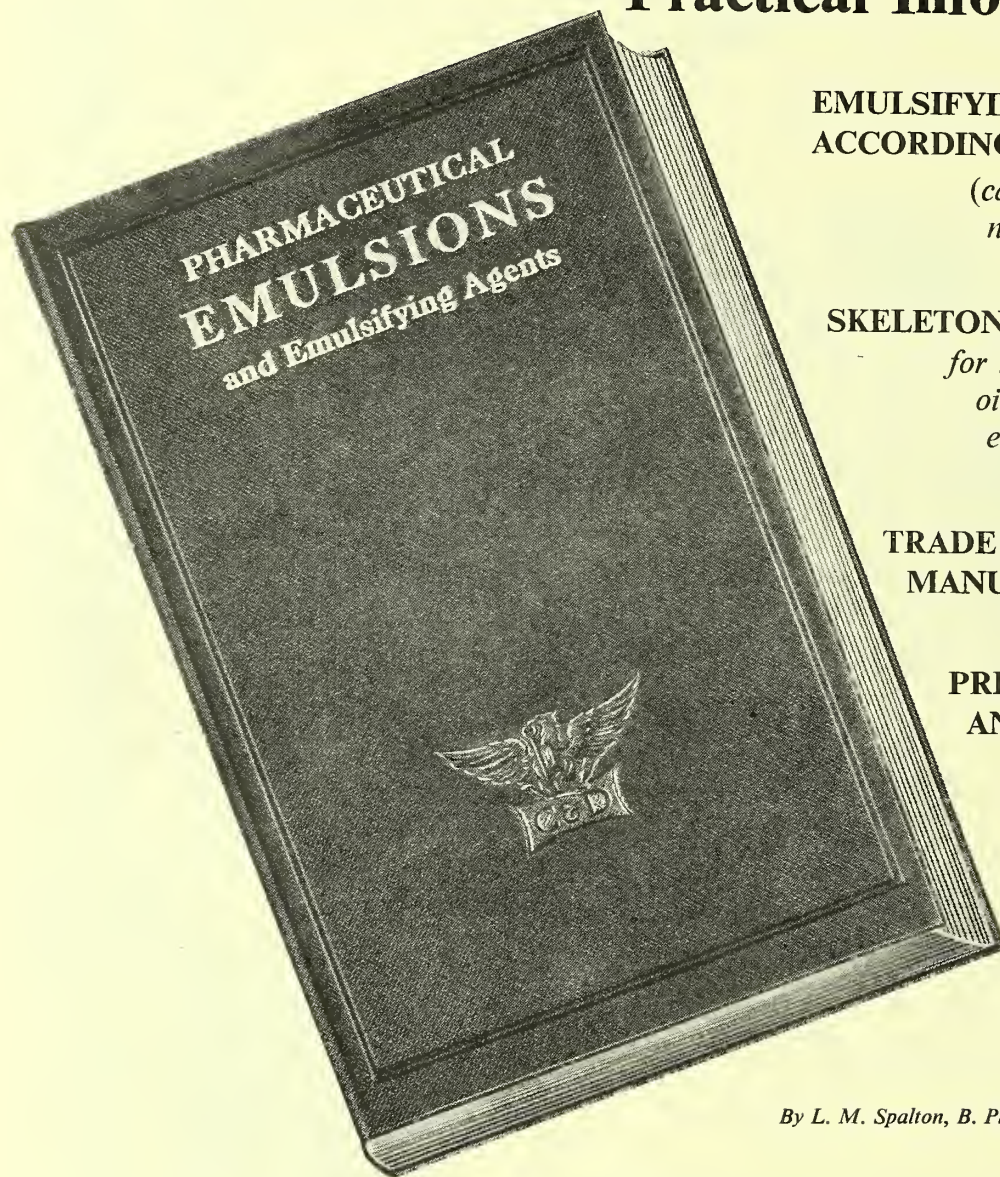
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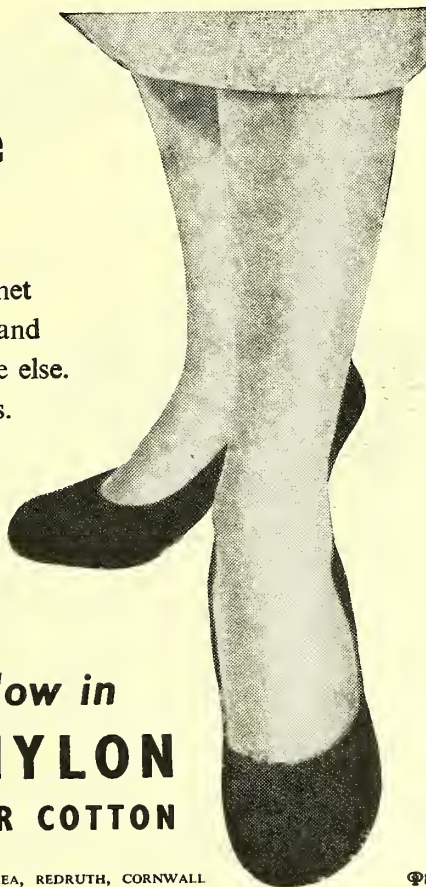
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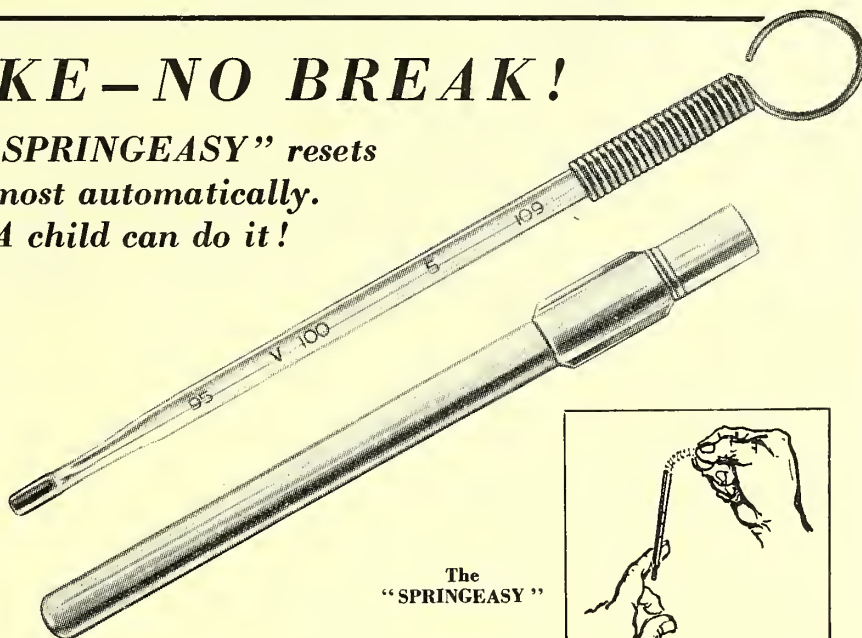
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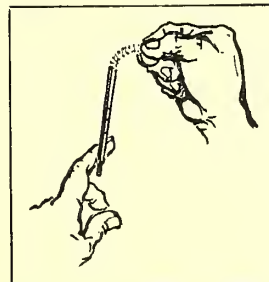
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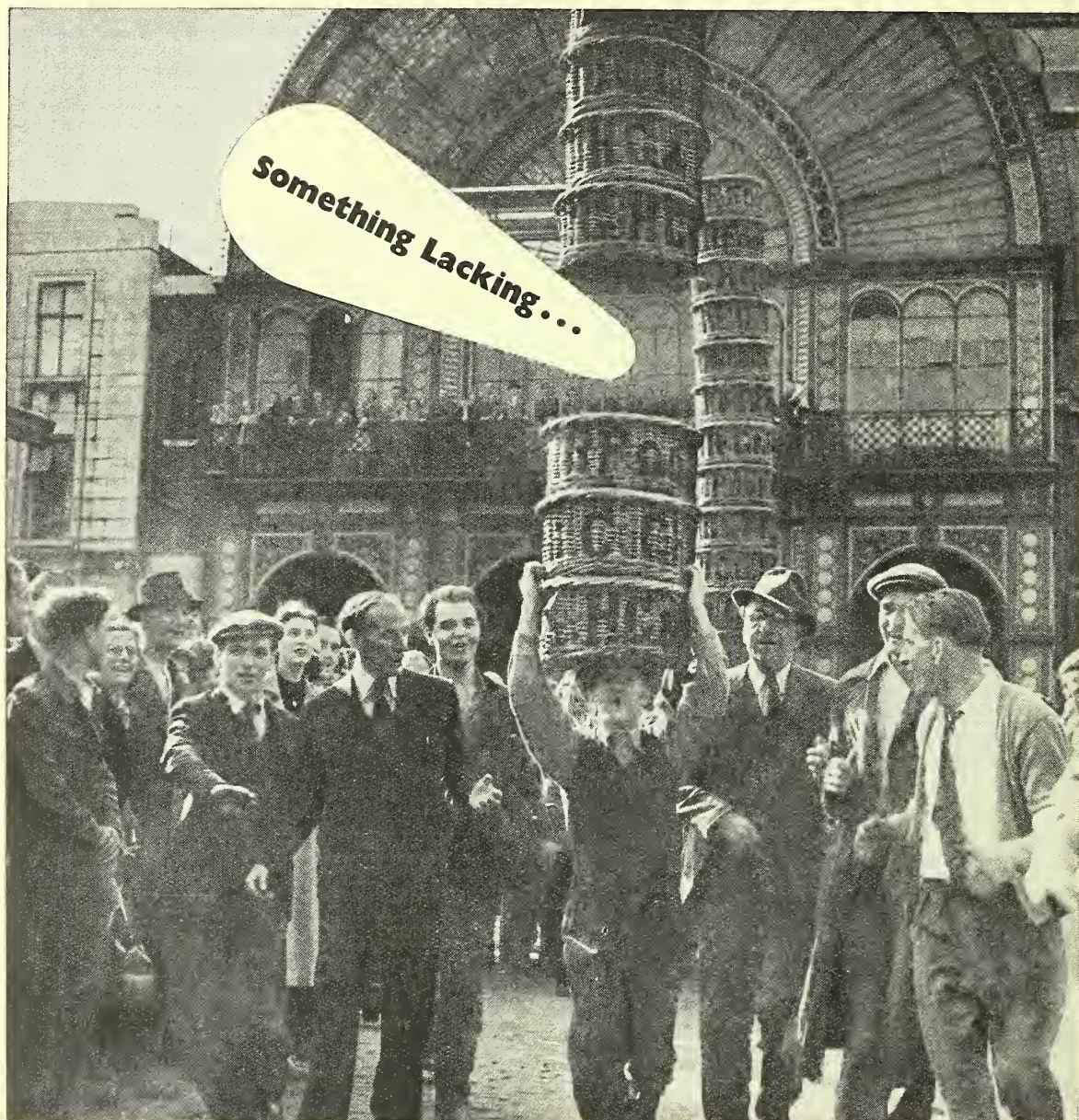


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(Category III Hospital)

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Group Secretary/Finance Officer,
The General Hospital,
Bishop Auckland. C 6031

THE LONDON HOSPITAL, WHITECHAPEL, E.1

Registered Pharmacist

Vacancy exists for the above post. Salary £500 x £25 (3) x £30 (5)—£725, according to previous experience and service. Dining room facilities available. Write Secretary. C 289

SOUTH MANCHESTER H.M.C., WYTHENSHAW HOSPITAL, MANCHESTER, 23

Pharmacist

Applications are invited for the post of Pharmacist at Wythenshawe Hospital. Whitley Council Salary Scale and conditions of service. Applications stating age, qualifications and experience with names of two referees, to the Administrative Officer. C 6027

SOUTH WEST MIDDLESEX HOSPITAL MANAGEMENT COMMITTEE, WEST MIDDLESEX HOSPITAL

(Category V)

Senior Pharmacist

required. Whitley Council salary scale and conditions and Higher Qualification Allowance £25 per annum. Commencing salary determined by previous experience.

Applications stating age, qualifications and experience, with copies of testimonials and names and addresses of three referees to Chief Pharmacist, West Middlesex Hospital, Isleworth, Middlesex. C 6010

ST. HELIER HOSPITAL, CARSHALTON, SURREY (731 beds)

Senior Pharmacist

Applications invited for above post vacant on February 4, 1957. General acute hospital (Category V); well equipped pharmaceutical department. The successful applicant will be responsible for the manufacture and issue of ward stocks within hospital and also for issues to the other 9 hospitals in Group.

Salary (plus London Weighting) in accordance with Whitley Council scale. Good canteen facilities. Apply, giving names of two referees, to the Secretary. C 6000

ST. LEONARD'S HOSPITAL, NUTTALL STREET, LONDON, N.1

Assistant-in-Dispensing

Applications are invited for the post of Assistant-in-Dispensing. Whitley Council salary and conditions of service. Applications, stating age, experience, and naming two referees to Hospital Secretary. C 5990

UGANDA GOVERNMENT

Pharmacist (Male or Female)

required by Uganda Government Medical Department on probation for pensionable employment. Salary scale (including inducement pay) £879 rising to £1,617 a year. Commencing salary according to qualifications and experience. Outfit allowance £30 usually payable. Free passages. Liberal leave on full salary after each tour of 30/36 months. National Health Service Superannuation rights may be preserved in approved cases. Candidates must be M.P.S. of Great Britain. Female candidates must be single. Write to the Crown Agents, 4 Millbank, London, S.W.1. State age, name in block letters, full qualifications and experience and quote M3/43842/CD. C 6024

WILLESDEN GENERAL HOSPITAL, HARLESDEN ROAD, N.W.10

Senior Pharmacist

wanted. Apply Hospital Secretary. C 294

PFIZER LTD.**MEDICAL REPRESENTATIVES**

Owing to continued expansion Pfizer Ltd. wish to enlarge their Medical Representative Force and invite applications for these positions.

The Company is a British subsidiary of leading American ethical pharmaceutical house.

Preference will be given to applicants with pharmaceutical qualifications or experience with an ethical house. Good starting salary and expenses. Car provided. Non-contributory Pension Scheme. Previous applicants need not re-apply.

Applications, giving full particulars of age, experience, etc., should be made in writing to the Personnel Officer, 137/139, Sandgate Road, Folkestone, Kent, quoting ref. TN/10. C 287

LITTO Preparations

are now being manufactured by

VINES BIOCRIN LTD.

222-224 HARROW ROAD, LONDON, W.2

to whom all orders and enquiries should be addressed

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Isopad Electric Blankets. Perhel Actinea Sunlamps.

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Remington, Sunbeam, Phillshave Electric Shavers. Pifco.

Morphy-Richards, Bylock Hair Dryers and Stands.

SUNBEAM; Mixmaster and Accessories; Automatic Frypan.

55 LEATHER LANE, E.C.1

Telephone: HOLborn 6689

Appointments—Continued**WEST MIDDLESEX HOSPITAL,
ISLEWORTH, MIDDLESEX**

Assistant-in-Dispensing

required. Whitley salary and conditions applicable. Applications stating age, qualifications and experience, with names of two referees to Chief Pharmacist. C 6011

**SITUATIONS VACANT
RETAIL (HOME)**

DONCASTER CO-OPERATIVE CHEMISTS, LTD., require the services of pharmacist (male or female) as branch manager. Payment on "sales" scale, plus bonus. Salary at smallest branch over £900 per year. Rota payment extra. All shops in prosperous industrial areas where sales increases are possible. 44-hour week. Applications with usual particulars to the Superintendent Chemist, Doncaster Co-operative Chemists, Ltd., P.O. Box 20, Doncaster. C 278

MANAGER. Pharmacy on new estate, Northolt-Harrow border. Labour-saving maisonnette accommodation above. Modern pharmacy. Write, giving particulars including salary to Parker, 281-3 Northolt Road, S. Harrow. C 4272

NORTH LONDON. Pharmacist required for substantial dispensing business in North London. The shop is attractively fitted with a good supporting staff and accommodation is available if required. Apply with full details, stating when available for interview to Box C 4266.

PHARMACIST-MANAGER required, suitable furnished living accommodation for single person. S. Mansell, Dispensing Chemists, Ltd., 310-312 New Cross Road, London, S.E.14. C 303

PORTSMOUTH. Pharmacy branch manager or manageress required for pharmacy section of departmental store. Wages based on sales, at present £16 2s. 6d. (male) per week, plus rota fees, prescription and sales bonus. Superannuation fund, sick pay, etc., Applications in writing giving details of age, experience, etc., to the Personnel Manager, Portsea Island Mutual Co-operative Society, Limited, 110 Fratton Road, Portsmouth. C 4268

SOUTHALL. Pharmacist of ability required to manage attractive and modern shop with substantial salary and bonus. Good supporting staff and well-equipped dispensary. Permanency with superannuation benefits. Flat accommodation available. Apply with full details stating when available for interview to Box C 4265.

SURREY. Lady assistant required, preferably experienced, for cosmetics counter, display, etc. Shop just refitted. Staff of four. Very comfortable digs available. Good wages. Apply stating age, experience, etc., and availability for interview (fares paid) to Skidmores, 30 High Street, Banstead, Burgh Heath 720 day (2024 evenings and Sunday). C 4262

YORK CO-OPERATIVE CHEMISTS' SOCIETY, LTD., require branch manager, lady or gentleman, for new pharmacy in suburbs of York. Good salary and conditions. Self-contained, splendidly equipped modern flat at moderate rental. Apply, giving full details to the Superintendent Chemist, 22 Railway Street, York. C 4202

LOCUMS WANTED

LOCUM TENENS PHARMACIST of experience required to undertake a long tour of duties in the London area. Expenses and salary basis. Applications in first instance to Chief Pharmacist, Grange Road, Leyton, E.10. C 4267

WHOLESALE

AN OLD-ESTABLISHED FIRM of manufacturing and wholesale chemists in the Midlands require a young qualified chemist with manufacturing experience, progressive position, 5-day week. State age, qualifications and salary required to Box C 4278.

THE ARMOUR LABORATORIES invite applications from experienced medical representatives for their London, W.1, territory. This is a senior appointment, offering excellent prospects, including contributory pension and group insurance schemes, to a suitable candidate preferably under thirty-five years. Full details of age, education, and career to date, to: Sales Manager, The Armour Laboratories, Hampden Park, Eastbourne. C 6048

THE ARMOUR LABORATORIES invite applications for vacancies on their medical representative staff from ladies or gentlemen, aged twenty-five to thirty-five, for various territories in England and Scotland. Representative experience would be welcomed, though it is not an essential qualification, as adequate training will be given. These appointments offer excellent prospects, including contributory pension and group insurance schemes. Full details of age, education, and career to date: Sales Manager, The Armour Laboratories, Hampden Park, Eastbourne. C 6049

THE ARMOUR LABORATORIES have vacancies on the representative staff of their surgical ligatures and sutures department for territories in Scotland and the Midlands. Applications are invited from ladies and gentlemen, aged twenty-five to thirty-five, preferably with some experience in this field. These appointments offer excellent prospects, including contributory pension and group insurance schemes. Full details of age, education, and career to date, to: Sales Manager, The Armour Laboratories, Hampden Park, Eastbourne. C 6050

A SALES REPRESENTATIVE is required in Yorkshire to call on wholesale and retail trade with high class toilet ware. Write stating age, experience, education, present salary, etc., to: Home Sales Manager, Halcx, Highams Park, London, E.4. C 4274

CHEMIST. Young chemist (25-35) required to be responsible for processing and packing departments of a small and progressive company manufacturing nationally known pharmaceutical products. The factory is situated in South-west Herts area and is accessible by public transport. Applicants should have practical experience in the manufacture of creams and lotions and be capable of training personnel. Salary on commencement £850 per annum. Applicants should write giving full details of past experience to Box C 6038.

FACTORY MANAGER required by manufacturing chemists of highest standing for medium sized Factory in Middlesex engaged in production and distribution of proprietary pharmaceutical and toilet goods. Applicants must possess sound managerial and administrative ability obtained from practical experience in a similar capacity although not necessarily in the same industry. The salary offered will be sufficient to attract a man of suitable qualifications and there is a contributory pension scheme in force. Applications in writing which will be treated in strict confidence, should state age and give particulars of education, experience, present employment and salary and should be addressed to Production Manager, 50 Upper Brook Street, London, W.1. C 6030

GENATOSAN LIMITED

(A member of the Fison Group of Companies)

PHARMACIST required for development work in Pharmaceutical Development Laboratory. Previous experience in formulation work, especially tablet manufacture, would be an advantage but is not essential. Keen interest in recent advances in the pharmaceutical field and in the successful development of new products to the full-scale manufacturing stage, is required.

The post offers a good progressive salary, working conditions are excellent and there is a contributory pension scheme. Applications, giving details of age, education and experience to: The Personnel Officer, Genatosan, Ltd., 12 Derby Road, Loughborough, Leics. C 6004

HEATH BROS. & SONS, LTD., Wholesale Chemists & Sundriesmen, require a representative to cover Belfast and the six Northern Counties. Must be resident on the area. The territory is well and fully established. Car provided. Apply, Heath Bros. & Sons, Ltd., 98/100 Chapel Street, Salford, 3, Manchester, Lancs. C 6034

MEDICAL REPRESENTATIVES

Vacancies have occurred with one of the large Pharmaceutical Manufacturers for additional Medical Representatives based in the following areas:—

- (a) South Wales,
- (b) Manchester,
- (c) Leeds/Sheffield.

The positions offer scope for young men who have Pharmaceutical qualifications or those having Pharmaceutical background.

A good salary will be paid to the successful applicants and a car will be provided.

A non-contributory Pension and Life Assurance Scheme is in operation. Apply with full details of career to date, age, etc., to Box C 6046, quoting reference MR/SML.

MEDICAL REPRESENTATIVE required to cover Yorkshire/Durham/Northumberland area. Applicants between 25 and 40 years of age will be considered and a good pharmaceutical background is an important asset. Previous experience as medical representative not essential as full instruction will be given. Please state age and salary required. Box C 302.

MEDICAL REPRESENTATIVES

with pharmaceutical or medical background required by large firm of manufacturing chemists to interview doctors, hospitals and chemists in the following areas:—

HAMPSHIRE, DORSET, DEVON & CORNWALL,

YORKSHIRE & NOTTINGHAM. Car provided. Salary and expenses. Pension scheme. Apply giving age and full details of qualifications and experience. Essential also to state salary required. Box C 6047.

WYETH ARE EXPANDING AGAIN

We are planning for the future—the future of a major ethical pharmaceutical company. New personnel are wanted in our sales and sales

administration departments and we want more research workers. Here is your opportunity to join us if you are the right type.

SALES AND ADMINISTRATION

Sales Executive—This is a senior post and calls for a man with proven ability in the field, as a junior executive, and as a responsible administrator in the promotion and selling of ethical pharmaceuticals in the U.K. He will be 35 to 40 and have a pharmaceutical degree (or its equivalent), personality, initiative and leadership. We want him to be responsible, under the General Sales Manager, for co-ordinating and leading a large team of medical representatives. Send in full details of your education and career, together with a recent photograph, to the Assistant Managing Director (Home).

Training Executive—The successful candidate will be attached to the Sales department. His qualifications of being a pharmacist aged about 35 who has had practical experience as a medical representative, and in training will enable him to impart technical and other information to new and established representatives. His ability and personality will ensure that he does so in an interesting and effective form. If you

think you are our man, write with full particulars to the Assistant Managing Director (Home).

Representatives—We want men who have experience as medical representatives or who feel sure they could succeed in this interesting work. Desirable qualifications are a pharmaceutical or medical student background, initiative and good general education. The vacancies are in different parts of the U.K. and everything will be done to ensure that successful applicants are placed in areas which are most suitable. Successful applicants, aged 25-30, will be given a car, salary and expenses, and take part in an Incentive Scheme. There is also a non-contributory Life Assurance and Pension Scheme which employees join after a short period of service. Please send in full particulars of your education and career together with a recent photograph to the General Sales Manager.

RESEARCH DIVISION

These posts will be at our new laboratories in Havant, Portsmouth.

Pharmacologist—We want a senior man to head our Pharmacological Department. Applicants should have not only academic qualifications but have had several years experience in practical pharmacology. The research programme is an important and interesting one which offers scope and progress to the right individual.

Senior Organic Chemist—An essential qualification is a Ph.D. or its equivalent in organic chemistry and applicants should have had several years experience of research in the pharmaceutical industry.

Junior Organic Chemist—An essential qualification is a M.Sc. or recent Ph.D. No previous experience in research in the pharmaceutical industry is required for the particular position, although any such experience would certainly be taken into consideration.

Physico-Analytical Chemist—This post is one which requires practical experience in analytical chemistry and the use and maintenance of instruments such as infra-red and ultra-violet spectrophotometers. It is desirable that applicants should have a B.Sc., F.R.I.C., or A.R.I.C. qualification.

All applications giving details of education and career to date, should be sent to the Assistant Managing Director (Home)

JOHN WYETH AND BROTHER LIMITED, CLIFTON HOUSE, EUSTON ROAD, LONDON, N.W.1
C 6013

ARE YOU DETERMINED TO MAKE SELLING YOUR CAREER?

if so, and you are:—

- Between 25 and 30 years of age.
- Fully mobile and in possession of a clean car driver's licence.
- At present engaged in retail pharmacy or have experience in selling to chemists.
- Prepared to undergo 6 months' detailed training at these offices as a preliminary to appointment to our chemist sales force.

You should apply immediately for appointment as trainee chemist Salesman. Salary according to qualifications will be paid during training.

Apply in writing, giving full details, to H.S.M. S. MAW SON AND SONS LIMITED, Aldersgate House, Cromer Road, New Barnet, Herts. C 6009

C. L. BENCARD LTD.

wish to appoint a first-rate, experienced medical representative in Northern Scotland—Perthshire, Aberdeenshire, Nairnshire and eastwards to coast including Dunfermline. The post offers exceptional prospects; full expenses and a car are provided, and bonus and pension schemes operate. Apply, giving full details of experience, to the Sales Manager, C. L. Bencard, Ltd., Minerva Road, Park Royal, London, N.W.10.

C 6036

EVANS MEDICAL SUPPLIES LTD.

Pharmaceutical Research and Development

Vacancies exist in the Evans Medical organisation for the following:—

- Tablet Development Pharmacist.** A young pharmacist is required, preferably but not necessarily with previous experience in tablet making, to engage in interesting and original development work in this field.
- Pharmaceutical Research Assistant.** A pharmacist or chemist with suitable pharmaceutical background is required for team work in formulation and process research, which will include projects of a fundamental nature.

Attractive conditions of service including pension scheme. Apply stating age, education, qualifications and experience to Pharmaceutical Development Director, Evans Medical Supplies, Ltd., Speke, Liverpool, 19. C 6017

EVANS MEDICAL SUPPLIES LTD.

MEDICAL REPRESENTATIVE

Applications are invited for appointment as a medical representative in a Lancashire area from persons holding a pharmaceutical qualification.

Preference will be given to an applicant who has had a minimum of two years' hospital experience in at least the basic grade of Pharmacist.

Adequate initial training will be given in the highly specialised work of detailing the Company's medical specialities and all necessary measures of support are in operation.

The Company operates a Pensions and Life Assurance Scheme, and the conditions of employment have an attractive career value.

Write with full details of education, qualifications and experience to the Pharmaceutical Director, Evans Medical Supplies Ltd., Speke, Liverpool 19. C 6032

ETHICAL OPPORTUNITY

Private chemist, personally controlling brisk retail business, having sold many thousands of an "own goods" ethical line at 6s. during 1956, under registered trade mark, without advertising to the public, now invites suggestions from a company interested in marketing on a royalty basis. The line is unique and could not easily be imitated, and the potential market is unlimited. Manufacture and packaging already arranged. Principals only. Apply Box C 4277.

SIMBILT PHARMACY FITTINGS
TRADE MARK
229, OLD ST., LONDON, E.C.1.
TELEPHONE CLERKENWELL 5886

OVER 40 YEARS
EXPERIENCESend for
CATALOGUE of
UNIT FITTINGS

Situations Vacant—Continued

PHARMACISTS are required in the Pharmaceutical Division of a well-known firm of chemical manufacturers near London. The engagement is on the manufacturing and packaging of ethical products. The post offers considerable scope for initiative and advancement, with opportunities for experiment in production and control methods. Salary according to qualifications and experience. Contributory pension scheme. Apply initially in writing to Box C 6026.

REPRESENTATIVE required to contact hospitals, institutions, etc., in the Birmingham area. Duties will consist of medical propaganda, selling and lecturing. This is a well-paid position, permanent and superannuated. It demands an ambitious, educated man, preferably with experience in this field. Full training will be given. Applicants should send fullest details to Box C 6040.

SCOTLAND. A long established tablet manufacturing house is requiring a representative for Scotland. Salary, commission, expenses. Car provided. Details of experience to Box C 4275

THE DDD COMPANY has vacancy for representative to cover Lancashire and Cheshire. Must have excellent connection retailers, wholesalers, etc. Highest references necessary. Salary, expenses and full territorial commission. Expenses paid to London for interview. Write firstly stating experience to Managing Director, DDD Co., Ltd., 94 Rickmansworth Road, Watford, Herts. C 4269

WANTED, for Midlands chemists' wholesalers, an experienced pricing clerk. Good conditions. Good pay. Permanency. Box C 6037.

YORKSHIRE REPRESENTATIVE for manufacturing chemists. Nationally advertised products. Good salary, commission, all expenses. Car provided. Experienced man preferred. Present staff informed of vacancy. All details in confidence first letter. Box C 6054.

WHOLESALE (OVERSEAS)

QUALIFIED CHEMISTS (B.Sc., A.R.I.C.) and pharmacists (B.Pharm. or F.P.S.), aged 22 to 27 years, are invited to apply for trainee managerial posts with a well known group of companies manufacturing toilet and pharmaceutical preparations. The group has many overseas factories and successful applicants would be considered for appointments overseas after a period in one of the home factories. During this period trainees will receive at least £750 per annum but if posted overseas a four-figure commencing salary, plus any local allowances will be paid. Please write giving fullest details of age, qualifications and experience to Box C 6039.

SOUTH AFRICA. An opportunity occurs for a Pharmacist aged 25-35 to go to South Africa to take up a senior position in the Research and Development Division in a modern factory. The post is an interesting one in an expanding company. Pharmaceutical qualification (B.Pharm., Ph.C.) is essential and additional qualifications an advantage. The successful candidate will be given six months' special training in this country prior to taking up permanent residence in South Africa. Apply, in writing, giving details of age, qualifications and experience to Personnel Manager, Allen & Hanburys (Africa), Ltd., Bethnal Green, E.2. C 6029

SOUTH AFRICA. An opportunity occurs for a Pharmacist aged 25-35 to go to South Africa to take up a senior commercial position in an expanding company operating throughout South and Central Africa. Previous Sales experience is essential and the post is one which will give wide scope to a person with initiative, imagination and drive. It is important that the applicant has organising ability, and special training in this country will be given prior to the successful applicant taking up permanent residence in South Africa. Apply in writing, giving details of age, qualifications, experience, etc., to Personnel Manager, Allen & Hanburys (Africa), Ltd., Bethnal Green, E.2. C 6028

AGENTS WANTED

AGENTS required by old-established manufacturers of toilet bags, powder puffs. Attractive, fast-selling range. Liberal commission. Scotland, Midlands, South of England. Write to Columbia Products Co., Ltd., Devonshire Works, Dukes Avenue, London, W.4. C 4281

M.A.A.—The Badge of a good manufacturers' agent. Manufacturers requiring reputable agents are invited to communicate with the Secretary, The Manufacturers' Agents' Association of Great Britain & Ireland (Inc.), Bream's Buildings, E.C.4. Membership available to established agents only. Particulars supplied. C 4

REPRESENTATIVES wanting extra line on generous commission should write to: "Plast-Aid," Craigton Works, Milngavie, Dunbartonshire. C 5979

WELL-KNOWN manufacturer of medical lamps seeks agent to call on chemical and possibly electrical wholesalers in Bristol, Cardiff, Newport and Swansea area. Remuneration on a commission basis. Suitable for person calling on chemical wholesalers willing to take additional line. Box C 4279.

SITUATIONS WANTED

WHOLESALE

EXTREMELY SUCCESSFUL senior medical representative with managerial experience, I.S.M.A., student, requires position as Sales Manager with small company. Preference non-ethical house. Box C 4271.

REPRESENTATIVE (free lance), own car, best connection Greater London area requires additional lines for chemists on commission basis. Box C 4270.

BUSINESS OPPORTUNITIES

ADHESIVE PLASTERS. Manufactured to your requirements, guaranteed B.P.C. Low terms for contract work. Would consider a firm to take over sales and distribution. "Plast-Aid," Craigton Works, Milngavie, Dunbartonshire. C 5978

RUBBER (also Latex rubber), silicone rubber and other synthetic rubber mouldings and translucent tubing made to customers' specifications. Esco (Rubber), Ltd., 34/36 Somersford Grove, London, N.16. C 241

WANTED

ALL KINDS OF BOTTLES, JARS, SCREW CAPS, cartons, packaging materials and manufacturers' stocks of all kinds bought at fair prices for spot cash. We are buyers of merchandise of EVERY DESCRIPTION. Clearance Stocks. Discontinued lines. Surplus and Redundant Stocks. Should you have anything for disposal, please send us samples and particulars. Reliance Trading Co., 75 Fairfax Road, Swiss Cottage, London, N.W.6.

AUTOMATIC TUBE-FILLING MACHINE, second-hand, in good condition. Full details of make, price, etc., to Box C 6015.

WE WILL PURCHASE for cash a complete stock, a redundant line, including finished or partly finished goods, packing raw materials, etc. No quantity too large. Our representative will call anywhere. Write or telephone:—Lawrence Edwards & Co., Ltd., 6/7 Wellington Close, Ledbury Road, London, W.11. Tel.: Bayswater 4020 and 7692. C 140

MISCELLANEOUS SALES

100 BAYS of brand new adjustable steel shelving, 72 in. high by 34 in. wide by 12 in. deep. Stove-enamelled bronze green. Sent knocked down—6 shelf bay—£3 15s. Sample delivered free. Quantity discounts. N. C. Brown, Ltd., Eagle Steelworks, Heywood, Lancs. C 6035

CARBOWAX 1540, Approx. 460 kilos available immediately. Details from Box C 6051.
FOR SALE. 1 tablet counting machine—"Finex"—to count 1,500-2,000 tablets per minute. This machine can operate any type of round tablet, be they compressed, sugar-coated or capsules. This machine is almost new and cost over £400. Any reasonable offer will be considered. Agnew & Simpson, Ltd., 81/87 Oxford Street, Glasgow, C.5. C 4276

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JEWELS

**FREE LIST FROM
L. FRANKENBERG, LTD.,
37 HOUNDSDITCH,
LONDON, E.C.3**

C 269

SALES BY AUCTION

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B. NORMAN & SON,
2/5 LITTLE BRITAIN (close to G.P.O.),
LONDON, E.C.1.

will sell by Auction on Wednesday, January 16, 1957, at 1.30 p.m., excellent modern **CHEMISTS' & DRUGGISTS' SHOP FITTINGS** in mahogany and oak, including Drug Runs, Nests of Drawers, Counters, Plate-glass Wall and Centre Showcases, Cash Tills, Mirrors, Screen, Display Stands, Office Furniture, Typewriters, Safe, etc. View day prior and morning of sale. Catalogues (3d. by post) on application. C 6025

TRADE MARKS

The Trade Mark No. 393077 consisting of the word "ISOLINE" and registered in respect of liquid antiseptic preparations for burns being medicinal preparations for human use was assigned on November 19, 1956, by William Goulding McKune, of 186 Commercial Street, Kirkcaldy, Scotland, to International Latex Corporation of Playtex Park, City of Dover, State of Delaware, U.S.A., **WITHOUT THE GOODWILL OF THE BUSINESS IN WHICH IT WAS THEN IN USE.** C 6041

MISCELLANEOUS

SUPPOSITORY EXCIPIENTS "IMHAUSEN"—in five different grades to suit individual needs—available from Chemicals Trading Company, Ltd., 102 Bishopsgate, London E.C.2. C 300

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THE little luxuries extended to ailing children do not often include an ingratiating medicine. There is a need for palatable and harmless forms of the drugs given to young patients. Aspirin, one of the commonest, is, for instance, one of the most unpleasant, and can be harmful to the delicate gastric mucosa.

On the other hand, most children will readily take aspirin in the form of *Junior Paynocil*. These tablets are really pleasant to take; they disperse instantly on the tongue without water, and minimise the risk of gastric irritation due to aspirin.

**Junior
PAYNOCIL**

Junior Paynocil tablets each contain $2\frac{1}{2}$ grains of aspirin and $1\frac{1}{4}$ grains of glycine. Besides speeding disintegration and eliminating the unpleasant aspirin flavour, glycine confers on each aspirin particle a lubricant, demulcent and protective barrier.

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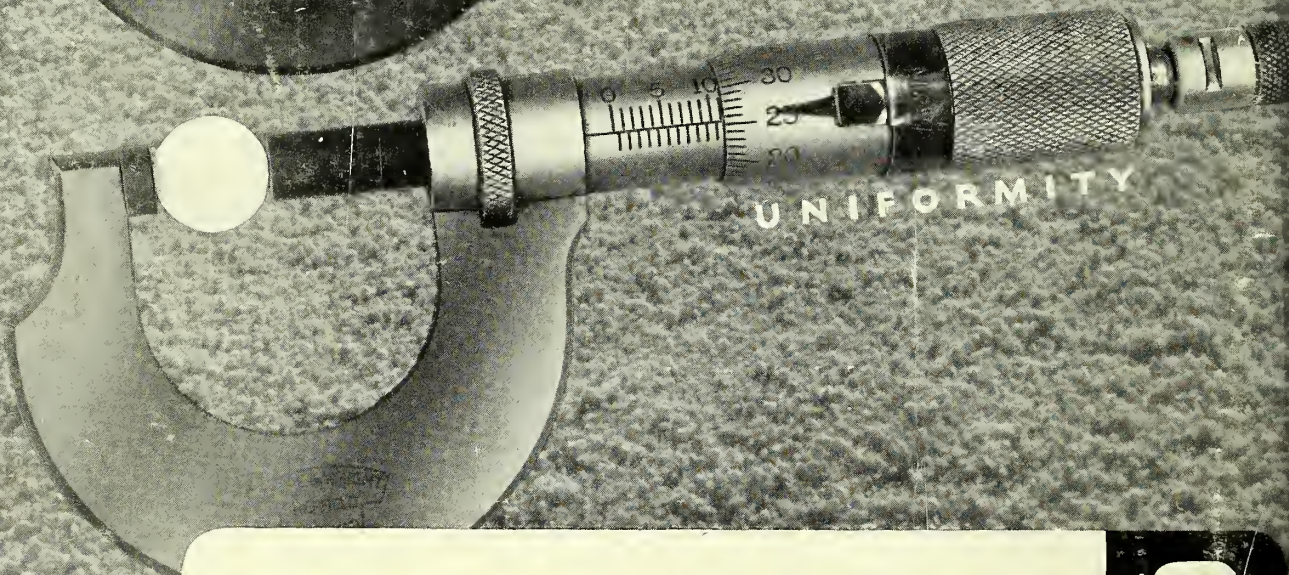
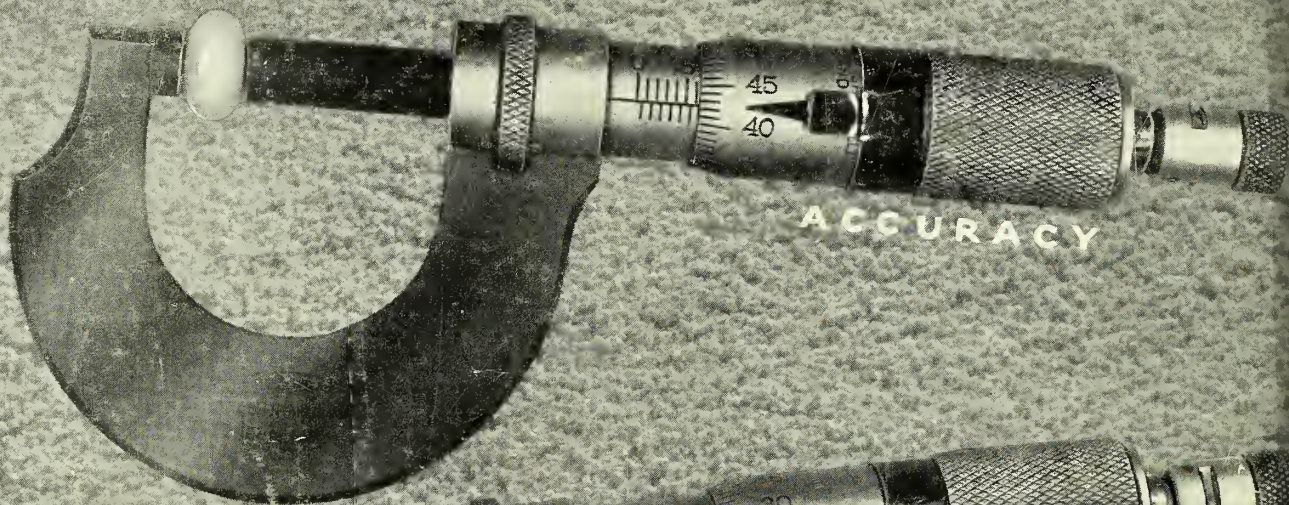
Cartons of 20 in sealed foil strips.

Tax free dispensing packs of 240.

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PRICE NOW REDUCED

C. L. BENCARD LTD., PARK ROYAL, LONDON N.W.10



Accuracy and uniformity are two outstanding features in the manufacture and coating of tablets by the COX Organisation which have been contributory factors in making the COX TABLET the finest in the world. Nothing is left to chance by our highly skilled and experienced personnel, many of whom have been with the Company for nearly fifty years

COX

ARTHUR H. COX & CO. LTD
BRIGHTON ENGLAND

One of the worlds foremost tablet makers